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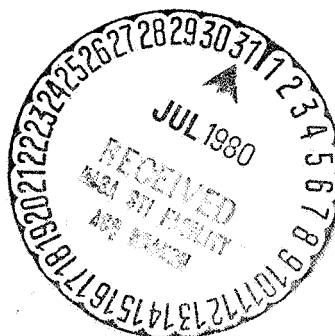
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THE NIMBUS 5 DATA CATALOG

VOLUME 8

1 FEBRUARY 1974 THROUGH 31 MARCH 1974
DATA ORBITS 5594 THROUGH 6385



GODDARD SPACE FLIGHT CENTER
GREENBELT, MARYLAND

THE NIMBUS 5 DATA CATALOG

Volume 8

1 February 1974 through 31 March 1974

Data Orbits 5594 through 6385

Prepared by

Allied Research Associates, Inc.

Baltimore, Maryland

For the

ERTS/Nimbus Project

July 1974

GODDARD SPACE FLIGHT CENTER

Greenbelt, Maryland

FOREWORD

This is the eighth volume of a series of catalogs published by the National Aeronautics and Space Administration to document data acquired from the Nimbus 5 meteorological satellite. This volume covers the period from 1 February through 31 March 1974 with subsequent catalogs to contain documentation for succeeding periods throughout the useful lifetime of Nimbus 5.

Background information concerning the Nimbus 5 meteorological satellite system and a description of the experiments and data formats have been published separately in The Nimbus 5 User's Guide, with post-launch User's Guide information changes and corrections included in the data catalogs. The Nimbus 5 catalogs present the type of data available, anomalies in the data, if any, and geographic location and time of the data.

The assembly and editing of this catalog was accomplished by Allied Research Associates, Inc. (ARA), Baltimore, Maryland, under contract number NAS 5-21617 with the Goddard Space Flight Center, NASA, Greenbelt, Maryland.

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SECTION 1

SUMMARY OF OPERATIONS

1.1 Introduction

Nimbus 5 was successfully launched from the Western Test Range at Vandenberg AFB, California, into a near circular orbit (1089 km x 1102 km) at 07 hr. 56 min. 00 sec. GMT on 11 December 1972. All experiments and subsystems were successfully turned on. Satellite operations from launch (11 December) through orbit 103 (18 December) consisted of engineering evaluation of all spacecraft systems. Therefore, data reception, accountability, and processing were intermittent during that period. Table 1-1 is a summary of the documentation for each Nimbus 5 Data Catalog volume through volume 8.

Table 1-1

Nimbus 5 Catalog Documentation Summary

Volume	Coverage Dates	Orbits
1	19 Dec. 72 - 31 Jan. 73	104 - 693
2	1 Feb. 73 - 31 Mar. 73	694 - 1485
3	1 Apr. 73 - 31 May 73	1486 - 2304
4	1 June 73 - 31 July 73	2305 - 3123
5	1 Aug. 73 - 30 Sept. 73	3124 - 3942
6	1 Oct. 73 - 30 Nov. 73	3943 - 4761
7	1 Dec. 73 - 31 Jan. 74	4762 - 5593
8	1 Feb. 74 - 31 Mar. 74	5594 - 6385

The total operating time for each experiment from launch through orbit 6385 was as follows:

ESMR	9586 hours
ITPR	9590 hours
NEMS	9592 hours
SCR	9591 hours
THIR	9592 hours
SCMR: direct	29 hours (No usable SCMR data was
recorded	6 hours recorded after orbit 320.)

The spacecraft attitude in pitch was biased at +2.9 degrees during orbit 5451 (21 January 1974) and has remained at this bias throughout this catalog period. Volume 1 discusses the displacement of earth location points caused by the pitch bias.

The nadir location coordinates on ESMR, ITPR, SCR and NEMS tapes are adjusted to correct for the pitch bias. Grid points on THIR and ESMR images are routinely corrected to match the data points and the grids. Any grid that is still in error by more than 60 n. m. is identified in Table 2-2 under the column headed "Grid Correction." THIR and ESMR grid print maps, available through NSSDC, are also adjusted so that the data points and their coordinates match.

Roll and yaw attitude control have been within nominal limits during this period.

Data quality from both HDRSS recorders continues to be good. However, since June 1973, the amplitude of the flutter on HDRSS A has been twice that of HDRSS B. Thus, HDRSS A use is restricted to one orbit per day during the blind period when two tape recorders are required for global coverage.

The power, command/clock, Versatile Information Processor (VIP), and thermal subsystem performances continued to be satisfactory during this period.

Subsections 1.2 through 1.7 of this catalog summarize the operational highlights of the individual experiments and call attention to known data anomalies. Section 2 lists the time for which data was received and is available for study for each experiment. Sections 3 and 4 show ESMR and THIR imagery, while Section 5 presents corrections to The Nimbus 5 User's Guide.

The user is referred to The Nimbus 5 User's Guide for a complete description of each experiment and to Section 1.7 of that Guide for the requesting procedure and sources for all data. Sections 2, 3, and 4 of this Data Catalog should help the user to select data to meet his needs.

1.2 The Temperature Humidity Infrared Radiometer (THIR) Subsystem

The quality of THIR data from both channels has been good. Root mean square (rms) THIR temperature variations, due to HDRSS type recorder and system noise, are near 2.4°K for HDRSS B and 3.6°K for HDRSS A. The higher HDRSS A value is attributed to higher flutter in its recorder system.

1.3 The Surface Composition Mapping Radiometer (SCMR) Experiment

The SCMR experiment collected and returned approximately 35 hours of instrument data during the first 320 orbits. Intermittent loss of a scan mirror synchronization pulse caused a loss of useful data output whenever this occurred. This synchronization problem progressed to the point where no useful data could be obtained after orbit 320 (4 January 1973).

Users who desire SCMR data or information should write to Dr. Warren G. Hovis, Code 940, Goddard Space Flight Center, Greenbelt, Maryland 20771.

1.4 The Electrically Scanning Microwave Radiometer (ESMR) Experiment

1.4.1 Performance

The ESMR instrument performance during this period has been satisfactory, although there were times, as shown in Table 3-2 in Section 3, when the instrument operated in a reduced data output mode.

In the reduced data output level mode the instrument brightness temperature response range is between 110°K and 220°K. Its normal response range is between 110°K and about 300°K. Thus, the effect of the malfunction is to narrow the range to which the instrument can respond. There is no way to recover temperature data above 220°K. However, by applying offset corrections, temperature values below 220°K are considered to be accurate to within 10°K. Because many polar and atmospheric

phenomena have brightness temperature lower than 220°K, investigations of these phenomena will be only slightly affected by the loss of high brightness temperatures.

On the ESMR image displays (Section 3) the effect of the temperature offset is to completely eliminate data information in swath 3, since its entire display temperature range, 254°K to 290°K, is above the new upper limit. Swath 2 temperature values range from 194°K to 266°K; thus, those values above 220°K are not shown at their true temperature. The offset does not affect values of swath 1, as its temperature limits are 110°K and 200°K.

A semi-quantitative calibration algorithm has been developed for these offset data. These calibrated data, as well as the normal data, are available through NSSDC as described in The Nimbus 5 User's Guide.

1.4.2 ESMR False Color Images

Several computer-processed color images (8" x 10" size) have been produced. Each image is a composite of several consecutive orbits of data. Table 1-2 lists those available through NSSDC. Volume 2 shows two examples (in black and white) of these false color composites. The user is cautioned that several of the South Polar images have longitude grid labels that are incorrect by 180°. Obvious terrestrial features can be used to obtain the correct grid orientation.

1.5 The Infrared Temperature Profile Radiometer (ITPR) Experiment

The ITPR instrument only operated in the nadir mode during this period, although space and housing are viewed periodically for calibration information. Sensor outputs from all seven channels have been normal. Instrument calibration values have remained almost constant during this period. Table 5-4 through 5-7 in Section 5 of this catalog give calibration values for previous catalog periods.

1.6 The Selective Chopper Radiometer (SCR) Experiment

1.6.1 Instrument Performance

The SCR instrument has remained in the normal operating mode since shortly after launch. Useful data continues to be received from all A, B, and C channels, although there has been some deterioration in the A channels and C 1 channel. The D channels, when in high gain, have been affected by noise since orbit 3124 (1 August). Since 21 September the data has been unusable. The problem is attributed to faulty relay contacts.

The SCR data is transmitted daily from Goddard Space Flight Center to the experimenter at Oxford, England. After processing and calibration, the data is output in several forms for analysis. Previous volumes of this catalog series show several output forms and provide discussion of some of the results from analysis of the SCR data.

1.7 The Nimbus E Microwave Spectrometer (NEMS) Experiment

The NEMS instrument continued to perform well during this catalog period. The experimenter at MIT, Cambridge, Massachusetts, continues to receive all NEMS data and is using it for research. Examples and analysis of some of the output products are in volume 1 through 3 of this catalog series.

Table 1-2

ESMR Color Images from Launch Through 31 March 1974
Available at NSSDC

Projection: Polar Area: 60°N - 90°N	Projection: Polar Area: 60°S - 90°S	Projection: Mercator	
Date	Date	Area	Date
15 December 1972 24 December	15 December 1972 24 December	180°W - 180°E 60°S - 60°N	12 Jan. 1973
2 January 1973 11 January	11 January 1973 21 January	130°E - 110°W 50°S - 50°N	13 Jan.
30 January 10 February	30 January 10 February	20°E - 40°E 10°N - 40°N	13 Jan.
26 February 21 June	26 February 4 March	130°E - 110°W 50°S - 50°N	14 Jan.
1 July 21 July	15 March 26 March	60°E - 150°E 0° - 60°N	14 Jan.
30 July 8 September	4 June 21 June	20°W - 60°E 0° - 75°N	18 Jan.
27 November 8 December	1 July 11 July	60°W - 130°W 10°N - 60°N	23 Jan.
	21 July 30 July	60°E - 150°E 0° - 60°N	10 Feb.
	30 August		
	5 September		
	28 September		
	27 November		
	8 December		

1.8 Bibliography on Nimbus 5 for the First Year (December, 1972 through January, 1973)

1.8.1 ESMR

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Gloersen, P., Chang, T. C., Wilheit, T. T., and Campbell, W. J.: Polar Sea Ice Observations by Means of Microwave Radiometry. Goddard Space Flight Center, NASA, X-652-73-341, November, 1973

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Schmugge, T. J., Rango, A., Allison, L. J., and Wilheit, T. T.: Hydrologic Applications of Nimbus 5 ESMR Data. Goddard Space Flight Center, NASA, X-910-74-51, February, 1974

Wilheit, T., Theon, J., Shenk, W., and Allison, L.: Meteorological Interpretations of the Images from Nimbus 5 Electrically Scanning Microwave Radiometer. Goddard Space Flight Center, NASA, X-651-73-189, June, 1973

1.8.2 ITPR

Smith, W. L., Hilleary, D. T., Fischer, J. C., Howell, H. B., and Woolf, H. M.: The Nimbus-5 ITPR Experiment. Applied Optics, Vol. 13, January, 1974, pp. 499-506.

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1.8.3 SCR

Barnett, J. J.: Analysis of Stratospheric Measurements by the Nimbus IV and V Selective Chopper Radiometers. Proceedings, Les Satellites Meteorologiques, The International Symposium on Meteorological Satellites, Paris, France, May 21-24, 1973.

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Ellis, P., Holah, G., Houghton, J. T., Jones, T. S., Peckham, G., Peskett, G. D., Pick, D. R., Rodgers, C. D., Roscoe, H., Sandwell, R., Smith, S. D., and Williamson, E. J.: Remote Sounding of Atmospheric Temperature from Satellites IV. The Selective Chopper Radiometer from Nimbus 5. Proc. R. Soc. Lond., Vol. 334, 1973, pp. 149-170

Jones, T. S. and Williamson, E. J.: The Analysis of Data from Meteorological Satellites. Proceedings, Les Satellites Meteorologiques, The International Symposium on Meteorological Satellites, Paris, France, May 21-24, 1973

Pick, D. R.: The Scientific Assessment of the Selective Chopper Radiometer Flown on the Nimbus 5 Satellite. Proceedings, Les Satellites Meteorologiques, The International Symposium on Meteorological Satellites, Paris, France, May 21-24, 1973

1.8.4 NEMS

Poon, R. K. L. and Staelin, D. H.: Anomalous Oxygen Absorption Inferred From Nimbus-5 Microwave Experiment, Quarterly Progress Report No. 111, Research Laboratory of Electronics, M.I.T., Cambridge, Mass., October 15, 1973, pp. 9-44

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1.8.5 NEMS, ITPR, and SCR

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Smith, W. L., Staelin, D. H., and Houghton, J. T.: Intercomparison and Amalgamation of Nimbus-5 Infrared and Microwave Temperature Profile Data. Proceedings, Les Satellites Meteorologiques, The International Symposium on Meteorological Satellites, Paris, France, May 21-24, 1973, pp. 139-145

1.8.6 ESMR and THIR

Allison, L. J., Rodgers, E. B., Wilheit, T. T., and Wexler, R.: A Multi-sensor Analysis of Nimbus 5 Data on 22 January 1973. Goddard Space Flight Center, NASA, X-910-74-20, January, 1974

1.8.7 THIR, ESMR, and SCMR

Theon, J. S.: A Multispectral View of the Gulf of Mexico from Nimbus 5. Bulletin of the American Meteorological Society, Vol. 54, September, 1973, pp. 934-937

SECTION 2

THE ORBITAL ELEMENTS AND DATA AVAILABILITY ON-OFF TIMES

The Nimbus 5 Brouwer Mean orbital elements for selected epochs during February and March 1974 are listed in Table 2-1.

Table 2-1

Nimbus 5 Brouwer Mean Orbital Elements
For February and March 1974

Epoch	Universal Time	10 Feb. 1974	24 Feb. 1974	10 Mar. 1974	24 Mar. 1974
Semi-Major Axis	Km	7473.512	7473.511	7473.508	7475.505
Eccentricity		.000799	.000799	.000820	.000859
Inclination	Degrees	99.934	99.934	99.932	99.931
Argument of Perigee	Degrees	282.810	245.923	211.039	177.761
Right Ascension of Ascending Node	Degrees	312.020	325.806	339.587	353.370
Height of Perigee	Km	1089.38	1089.38	1089.21	1088.92
Height of Apogee	Km	1101.32	1101.31	1101.47	1101.75
Anomalistic Period	Minutes	107.1629	107.1629	107.1628	107.1628
Motion of Perigee	Deg. per Day	-2.4349	-2.4349	-2.4350	-2.4351

The data availability on-off times (Table 2-2) list the times when the data from each instrument was recorded on a HDRSS.

THIR orbital coverage in Table 2-2 is divided between daytime and nighttime data. The THIR data is normally recorded simultaneously from both 6.7 μm and 11.5 μm channels. Therefore, the listed on-off times apply to both channels.

A THIR data orbit is defined as beginning and ending at the night-day terminator. Thus, the daytime data orbit extends from the night-day terminator to the day-night terminator. Each daytime THIR data orbit is assigned the orbit number of the ascending node which occurs during that portion of the orbit. The same orbit number is assigned also to the succeeding nighttime data orbit.

The "INT ORBIT & STDN" identify the orbit and the ground station to which the satellite data is transmitted. The letter "R" denotes Rosman, North Carolina; the letter "A" denotes Fairbanks, Alaska.

The "HDRSS" identifies the satellite tape recorder, either A or B.

The "THIR GRID CORR" columns are used to indicate an image grid error in latitude and longitude whenever either is in error by more than one degree of great

circle arc (60 n. m.). Latitude errors are suffixed by an N or S; longitude errors, by an E or W. An N or S indicates the grid should be moved up or down by the amount shown to obtain a good fit of the grid to the geography. An E or W indicates the grid should be moved right or left, at the equator, by the amount shown.

Ascending node times and longitudes are the times and longitudes at which the satellite crosses the equator in the northbound direction. These crossings always occur during the daytime portion of the orbit. The descending nodes and times refer to the southbound crossings, which occur during the nighttime portion of the orbit.

ESMR, NEMS, SCR, and ITPR are normally on all the time. Their sensory information is recorded on a HDRSS between interrogations, and their on- and off-times define the total record times between interrogations. An interrogation orbit is the orbit during which previously recorded data is transmitted to a ground station. This data will be from segments of two or more data orbits. To determine the orbital coverage of the data from any interrogation, the on- and off-times should be matched with the appropriate ascending or descending node listed with the THIR information on the same page of Table 2-2. Coverage can then be determined as described below.

The "DATA ORBIT" indicator in the ESMR table is given only for reference purposes. It is the number which appears on the data display image, samples of which are reproduced in Section 3, and identifies the last data orbit on each display. It should not be confused with the THIR data orbit number.

Table 2-2 together with the World Map (Figure 2-1) and the vellum Subsattellite Tracks Overlay attached to the back of this catalog, can be used to determine approximate geographic coverages.

A Subsattellite Tracks Overlay is correctly oriented with the World Map when the ascending or descending node line on the overlay coincides with the 0-degree latitude (equator) line of the World Map. Orbital coverage is determined by placing an orbit track on the world map at the appropriate ascending node (for daytime) or descending node (for nighttime) longitude for the orbit of interest.

The Subsattellite Tracks Overlay contains 14 correctly spaced tracks, which end at the approximate earth day-night transitions. The tracks contain time ticks spaced 5 minutes apart, appropriately annotated at the edge of the overlay, referenced from the equator. Times in minutes from equator crossings for all or part of a particular orbit are calculated by adding or subtracting from the ascending or descending node time listed for that orbit in the Data Availability On-Off Times Table.

The nature and format of the data to be available from each experiment are explained in detail in the respective sections of The Nimbus 5 User's Guide. The appropriate sources for requesting the various data types are listed in Section 1.7 of the same manual.

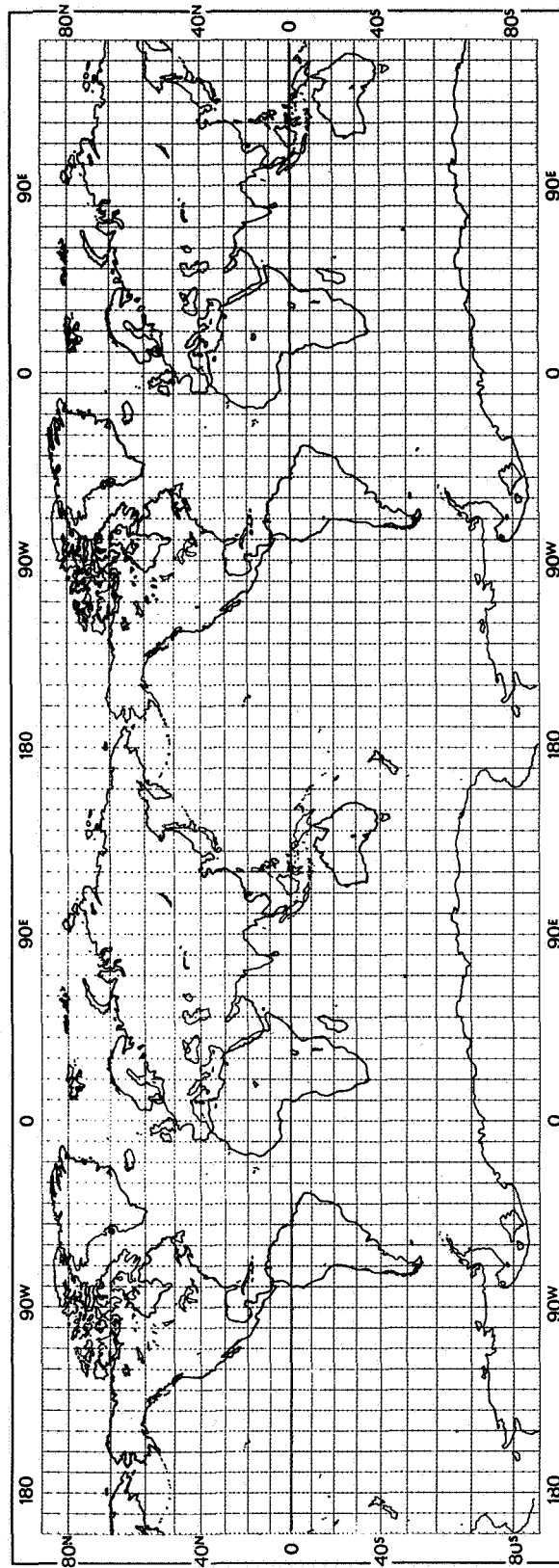


Figure 2-1 World Map

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
1 FEBRUARY 1974

THIR										ESMR									
-----										-----									
DATA	11.5	6.7	INT	H	THIR	ASC.	AND			DATA	ON	OFF	INT	H					
ORBIT	ON	OFF	ORBIT	D	GRID	DESC.	NODE			ORBIT	HRMN	HRMN	ORBIT	D					
	HRMN	HRMN	STDN	R	CORR	TIME	LONG						STDN	R					
				S	LALO	HRMNSS	DEG							S					
DAYTIME THIR										ASC. NODE									
5594						005011	E159.8			5595	0121	0311	5596R	A					
5595	0207	0256	5596R	A		023728	E133.0			5596	0309	0501	5596R	B					
5596	0354	0443	5596R	B		042444	E106.2			5597	0508	0650	5597R	B					
5597	0542	0630	5597R	B		061201	E079.4			5598	0655	0830	5598A	B					
5598	0729	0817	5598A	B		075917	E052.6			5599	0835	1018	5599A	B					
5599	0916	1005	5599A	B		094634	E025.8			5600	1023	1202	5600A	B					
5600	1103	1152	5600A	B		113350	W001.1			5601	1207	1349	5601A	B					
5601	1251	1339	5601A	B		132107	W027.9			5602	1354	1533	5602A	B					
5602	1438	1527	5602A	B		150823	W054.7			5603	1538	1715	5603A	B					
5603	1625	1714	5603A	B		165540	W081.5			5604	1720	1900	5604A	B					
5604	1812	1859	5604A	B		184256	W108.3			5605	1905	2044	5605A	B					
5605	2000	2043	5605A	B		203012	W135.2			5606	2050	2235	5606A	B					
5606	2147	2234	5606A	B		221729	W162.0												
NIGHTTIME THIR										DESC. NODE									
5594	0122	0207	5596R	A		014348	W033.6												
5595	0256	0310	5596R	A		033105	W060.4												
5595	0309	0354	5596R	B															
5596	0443	0459	5596R	B		051821	W087.2												
5596	0507	0542	5597R	B															
5597	0630	0649	5597R	B		070537	W114.0												
5597	0655	0729	5598A	B															
5598	0817	0829	5598A	B		085254	W140.9												
5598	0835	0916	5599A	B															
5599	1005	1015	5599A	B		104010	W167.7												
5599	1023	1103	5600A	B															
5600	1152	1201	5600A	B		122727	E165.5												
5600	1207	1251	5601A	B															
5601	1339	1347	5601A	B		141443	E138.7												
5601	1354	1438	5602A	B															
5602	1538	1625	5603A	B		160200	E111.9												
5603	1720	1812	5604A	B		174916	E085.1												
5604	1905	2000	5605A	B		193633	E058.3												
5605	2049	2147	5606A	B		212349	E031.4												
5606	2236	2334	5609R	A		231106	E004.6												
										NEMS - SCR - ITPR									

	0122	0311	5596R	A						0122	0311	5596R	A						
	0308	0502	5596R	B						0308	0502	5596R	B						
	0507	0650	5597R	B						0507	0650	5597R	B						
	0655	0830	5598A	B						0655	0830	5598A	B						
	0835	1018	5599A	B						0835	1018	5599A	B						
	1023	1202	5600A	B						1023	1202	5600A	B						
	1207	1349	5601A	B						1207	1349	5601A	B						
	1354	1533	5602A	B						1354	1533	5602A	B						
	1537	1715	5603A	B						1537	1715	5603A	B						
	1720	1900	5604A	B						1720	1900	5604A	B						
	1905	2044	5605A	B						1905	2044	5605A	B						
	2049	2236	5606A	B						2049	2236	5606A	B						
	2236	0034	5609R	A						2236	0034	5609R	A						

TABLE 2-2 (Continued)
DATA AVAILABILITY ON-OFF TIMES
2 FEBRUARY 1974

THIR										ESMR									
-----										-----									
		11.5 + 6.7		INT	H	THIR	ASC. AND							INT	H				
DATA	ON	OFF	ORBIT	+	R	GRID	DESC.	NODE		DATA	ON	OFF	ORBIT	+	R				
ORBIT	HRMN	HRMN	STDN		S	CORR	TIME	LONG		ORBIT	HRMN	HRMN	STDN		S				
						LALO	HRMNSS	DEG											
DAYTIME THIR										ASC. NODE									
5607	2334	0023	5609R		A		000445	E171.2		5607	2236	0035	5609R		A				
5608							015202	E144.4		5609	0222	0419	5609R		B				
5609	0309	0358	5609R		B		033918	E117.6		5610	0425	0605	5610R		B				
5610	0456	0545	5610R		B		052635	E090.7		5611	0610	0745	5611A		B				
5611	0643	0732	5611A		B		071351	E063.9		5612	0750	0931	5612A		B				
5612	0831	0919	5612A		B		090108	E037.1		5613	0937	1121	5613A		B				
5613	1018	1107	5613A		B		104824	E010.3		5614	1127	1303	5614A		B				
5614	1205	1254	5614A		B		123541	W016.5		5615	1309	1449	5615A		B				
5615	1353	1441	5615A		B		142257	W043.4		5616	1453	1631	5616A		B				
5616	1540	1629	5616A		B		161014	W070.2		5617	1637	1812	5617A		B				
5617	1727	1813	5617A		B		175730	W097.0		5618	1819	2001	5618A		B				
5618	1914	2000	5618A		B		194447	W123.8		5619	2006	2147	5619A		B				
5619	2102	2146	5619A		B		213203	W150.6											
5620							231920	W177.5											
NIGHTTIME THIR										DESC. NODE									
5607	0023	0033	5609R		A		005822	W022.2		NEMS - SCR - ITPR									
5608	0223	0309	5609R		B		024539	W049.0		-----									
5609	0358	0418	5609R		B		043255	W075.8		0222	0419		5609R		B				
5609	0425	0456	5610R		B					0425	0605		5610R		B				
5610	0545	0604	5610R		B		062012	W102.7		0610	0746		5611A		B				
5610	0610	0643	5611A		B					0750	0932		5612A		B				
5611	0732	0744	5611A		B		080728	W129.5		0937	1122		5613A		B				
5611	0750	0831	5612A		B					1126	1304		5614A		B				
5612	0919	0931	5612A		B		095445	W156.3		1308	1449		5615A		B				
5612	0937	1018	5613A		B					1454	1631		5616A		B				
5613	1107	1120	5613A		B		114201	E176.9		1637	1813		5617A		B				
5613	1126	1205	5614A		B					1818	2001		5618A		B				
5614	1254	1302	5614A		B		132918	E150.1		2006	2147		5619A		B				
5614	1308	1353	5615A		B														
5615	1441	1448	5615A		B		151634	E123.2											
5615	1453	1540	5616A		B														
5616	1637	1727	5617A		B		170351	E096.4											
5617	1818	1914	5618A		B		185107	E069.6											
5618	2006	2102	5619A		B		203824	E042.8											
5619							222540	E016.0											
5620							001256	W010.9											
										NEMS - SCR - ITPR									

TABLE 2-2 (Continued)
DATA AVAILABILITY ON-OFF TIMES
3 FEBRUARY 1974

THIR										ESMR							
-----										-----							
		11.5 + 6.7		INT	H	THIR	ASC. AND					INT	H				
DATA	ON	OFF	ORBIT	D	GRID	DESC.	NODE		DATA	ON	OFF	ORBIT	D				
ORBIT	HRMN	HRMN	STDN	R	CORR	TIME	LONG		ORBIT	HRMN	HRMN	STDN	R				
				S	LALO	HRMNSS	DEG						S				
DAYTIME THIR										ASC. NODE							
5621						010636	E155.7		5622	0140	0326	5623R	A				
5622	0224	0312	5623R	A		025352	E128.9		5623	0327	0518	5623R	B				
5623	0411	0459	5623R	B		044109	E102.1		5624	0524	0705	5624R	B				
5624	0558	0647	5624R	B		062825	E075.3		5625	0711	0847	5625A	B				
5625	0745	0834	5625A	B		081542	E048.5		5626	0852	1033	5626A	B				
5626	0933	1021	5626A	B		100258	E021.6		5627	1038	1220	5627A	B				
5627	1120	1209	5627A	B		115015	W005.2		5628	1225	1406	5628A	B				
5628	1307	1356	5628A	B		133731	W032.0		5629	1411	1549	5629A	B				
5629	1454	1543	5629A	B		152448	W058.8		5630	1553	1732	5630A	B				
5630	1642	1730	5630A	B		171204	W085.7		5631	1737	1914	5631A	B				
5631	1829	1912	5631A	B		185921	W112.5		5632	1920	2105	5632A	B				
5632	2016	2104	5632A	B		204637	W139.3		5633	2111	2251	5633A	B				
5633	2204	2250	5633A	B		223354	W166.1		5634	2253	0050	5636R	A				
NIGHTTIME THIR										DESC. NODE				NEMS - SCR - ITPR			
5621	0140	0224	5623R	A		020013	W037.7		0140	0326	5323R	A					
5622	0312	0325	5623R	A		034729	W064.5		0327	0518	5323R	B					
5622	0327	0411	5623R	B					0524	0705	5324R	B					
5623	0459	0517	5623R	B		053446	W091.3		0710	0848	5325A	B					
5623	0525	0558	5624R	B					0852	1033	5326A	B					
5624	0647	0705	5624R	B		072202	W118.1		1038	1221	5327A	B					
5624	0711	0745	5625A	B					1225	1406	5328A	B					
5625	0834	0846	5625A	B		090919	W145.0		1411	1549	5329A	B					
5625	0852	0933	5626A	B					1554	1732	5330A	B					
5626	1021	1032	5626A	B		105635	W171.8		1737	1914	5331A	B					
5626	1038	1120	5627A	B					1918	2104	5332A	B					
5627	1209	1220	5627A	B		124352	E161.4		2111	2251	5633A	B					
5627	1225	1307	5628A	B					2252	0050	5636R	A					
5628	1356	1405	5628A	B		143108	E134.6										
5628	1411	1454	5629A	B													
5629	1554	1642	5630A	B		161825	E107.8										
5630	1737	1829	5631A	B		180541	E081.0										
5631	1918	2016	5632A	B		195258	E054.1										
5632	2111	2204	5633A	B		214014	E027.3										
5633	2253	2351	5636R	A		232731	E000.5										

TABLE 2-2 (Continued)
DATA AVAILABILITY ON-OFF TIMES
4 FEBRUARY 1974

THIR										ESMR									
-----										-----									
DATA	11.5 + 6.7		INT	H	THIR	ASC. AND		DESC. NODE		DATA	ON OFF		INT	H	DESC. NODE		DESC. NODE		
ORBIT	ON	OFF	ORBIT	D	GRID	TIME	LONG	TIME	LONG	ORBIT	HRMN	HRMN	ORBIT	D	TIME	LONG	TIME	LONG	
	HRMN	HRMN	STDN	R	CORR	HRMNSS	DEG				HRMN	HRMN	STDN	R	HRMNSS	DEG			
				S	LALO									S					
DAYTIME THIR										ASC. NODE									
5634	2351	0040	5636R	A		002110	E167.1	5634	2253	0050	5636R	A							
5635						020827	E140.3	5636	0239	0435	5636R	B							
5636	0325	0414	5636R	B		035543	E113.5	5637	0440	0620	5637R	B							
5637	0513	0601	5637R	B		054300	E086.7	5638	0625	0802	5638A	B							
5638	0700	0749	5638A	B		073016	E059.8	5639	0807	0946	5639A	B							
5639	0847	0936	5639A	B		091733	E033.0	5640	0952	1137	5640A	B							
5640	1035	1123	5640A	B		110449	E006.2	5641	1142	1319	5641A	B							
5641	1222	1311	5641A	B		125205	W020.7	5642	1324	1505	5642A	B							
5642	1409	1458	5642A	B		143922	W047.5	5643	1510	1648	5643A	B							
5643	1556	1645	5643A	B		162638	W074.3	5644	1653	1831	5644A	B							
5644	1744	1830	5644A	B		181355	W101.1	5645	1835	2020	5645A	B							
5645	1931	2019	5645A	B		200111	W127.9	5646	2025	2204	5646A	B							
5646	2118	2203	5646A	B		214828	W154.7												
5647						233544	E178.5												
NIGHTTIME THIR										DESC. NODE									
5634	0040	0049	5636R	A		011447	W026.3	5634	0239	0434	5636R	B							
5635	0239	0325	5636R	B		030204	W053.1	5636	0440	0621	5637R	B							
5636	0414	0433	5636R	B		044920	W089.0	5637	0626	0802	5638A	B							
5636	0440	0513	5637R	B				5637	0807	0948	5639A	B							
5637	0601	0620	5637R	B		063637	W106.8	5638	0952	1138	5640A	B							
5637	0626	0700	5638A	B				5638	1142	1319	5641A	B							
5638	0749	0800	5638A	B		082353	W133.6	5638	1324	1505	5642A	B							
5638	0807	0847	5639A	B				5638	1510	1649	5643A	B							
5639	0936	0949	5639A	B		101110	W160.4	5639	1653	1831	5644A	B							
5639	0953	1035	5640A	B				5639	1835	2020	5645A	B							
5640	1123	1137	5640A	B		115826	E172.8	5640	2025	2204	5646A	B							
5640	1142	1222	5641A	B				5640											
5641	1311	1319	5641A	B		134542	E145.9	5641											
5641	1324	1409	5642A	B				5641											
5642	1458	1504	5642A	B		153259	E119.1	5642											
5642	1510	1556	5643A	B				5642											
5643	1653	1744	5644A	B		172015	E092.3	5643											
5644	1836	1931	5645A	B		190732	E065.5	5644											
5645	2025	2118	5646A	B		205448	E038.7	5645											
5646						224205	E011.9	5646											
5647	0008	0053	5650R	A		002921	W015.0												

TABLE 2-2 (Continued)
DATA AVAILABILITY ON-OFF TIMES
5 FEBRUARY 1974

*NO 6.7 DATA

TABLE 2-2 (Continued)
DATA AVAILABILITY ON-OFF TIMES
6 FEBRUARY 1974

THIR										ESMR									
-----										-----									
		11.5 + 6.7		INT	H	THIR	ASC. AND					INT	H	THIR	DESC. NODE				
DATA	ON	OFF	ORBIT	+	D	GRID	TIME	LONG		DATA	ON	OFF	ORBIT	+	D	TIME	LONG		
ORBIT	HRMN	HRMN	STDN		R	CORR	HRMNSS	DEG		ORBIT	HRMN	HRMN	STDN		R	HRMNSS	DEG		S
DAYTIME THIR										ASC. NODE									
5661	0007	0056	5663R		A		003735	E163.0		5661	2310	0108	5663R		A				
5662							022451	E136.2		5663	0257	0450	5663R		B				
5663	0342	0431	5663R		B		041208	E109.3		5664	0456	0636	5664R		B				
5664	0529	0618	5664R		B		055924	E082.5		5665	0642	0818	5665A		B				
5665	0717	0805	5665A		B		074641	E055.7		5666	0822	1005	5666A		B				
5666	0904	0953	5666A		B		093357	E028.9		5667	1010	1154	5667A		B				
5667	1051	1140	5667A		B		112114	E002.1		5668	1158	1335	5668A		B				
5668	1238	1327	5668A		B		130830	W024.8		5669	1340	1520	5669A		B				
5669	1426	1514	5669A		B		145547	W051.6		5670	1525	1703	5670A		B				
5670	1613	1702	5670A		B		164303	W078.4		5671	1708	1845	5671A		B				
5671	1800	1844	5671A		B		183020	W105.2		5672	1851	2034	5672A		B				
5672	1948	2033	5672A		B		201736	W132.0		5673	2039	2220	5673A		B				
5673	2135	2220	5673A		B		220453	W158.9											
5674							235209	E174.3											
NIGHTTIME THIR										DESC. NODE									
5661	0056	0105	5663R		A		013112	W030.4		NEMS - SCR - ITPR									
5662	0257	0342	5663R		B		031828	W057.2		2310	0109	5663R		A					
5663	0431	0448	5663R		B		050545	W084.1		0257	0450	5663R		B					
5663	0456	0529	5664R		B					0456	0637	5664R		B					
5664	0618	0635	5664R		B		065301	W110.9		0642	0818	5666A		B					
5664	0642	0717	5665A		B					0822	1005	5666A		B					
5665	0805	0815	5665A		B		084018	W137.7		1010	1154	5667A		B					
5665	0822	0904	5666A		B					1158	1336	5668A		B					
5666	0953	1003	5666A		B		102734	W164.5		1340	1520	5669A		B					
5666	1009	1051	5667A		B					1525	1703	5670A		B					
5667	1140	1152	5667A		B		121451	E168.7		1708	1845	5671A		B					
5667	1158	1238	5668A		B					1850	2034	5672A		B					
5668	1327	1335	5668A		B		140207	E141.9		2039	2221	5673A		B					
5668	1340	1426	5669A		B														
5669	1514	1521	5669A		B		154924	E115.0											
5669	1525	1613	5670A		B														
5670	1708	1800	5671A		B		173640	E088.2											
5671	1850	1948	5672A		B		192357	E061.4											
5672	2039	2135	5673A		B		211113	E034.6											
5673							225830	E007.8											
5674	0024	0109	5677R		A		004546	W019.1											

TABLE 2-2 (Continued)
DATA AVAILABILITY ON-OFF TIMES
7 FEBRUARY 1974

THIR										ESMR									
DATA		11.5 + 6.7		INT	H	THIR	ASC. AND		D	ESMR		INT	H	D			D	R	S
ORBIT	HRMN	ON	OFF	ORBIT	R	GRID	TIME	LONG		ORBIT	HRMN	ORBIT	R		HRMN	HRMN	STDN	S	
				STDN	S	LALO	HRMNSS	DEG				STDN	S						
DAYTIME THIR										ASC. NODE									
5675	0109	0158		5677R	A		013926	E147.5		5675	0024	0217		5677R	A				
5676	0257	0345		5676R	B		032642	E120.7		5676	0211	0407		5676R	B				
5677	0444	0533		5677R	B		051358	E093.9		5677	0414	0550		5677R	B				
5678	0631	0720		5678A	B		070115	E067.1		5678	0556	0735		5678A	B				
5679	0819	0907		5679A	B		084831	E040.2		5679	0740	0920		5679A	B				
5680	1006	1055		5680A	B		103548	E013.4		5680	0924	1102		5680A	B				
5681	1153	1242		5681A	B		122304	W013.4		5681	1109	1252		5681A	B				
5682	1340	1429		5682A	B		141021	W040.2		5682	1257	1436		5682A	B				
5683	1528	1616		5683A	B		155737	W067.0		5683	1441	1620		5683A	B				
5684	1715	1802		5684A	B		174454	W093.9		5684	1625	1805		5684A	B				
5685	1902	1947		5685A	B		193210	W120.7		5685	1809	1949		5685A	B				
5686	2050	2138		5686A	B		211927	W147.5		5686	1954	2138		5686A	B				
5687	2237	2324		5687A	B		230643	W174.3		5687	2144	2325		5687A	B				
NIGHTTIME THIR										DESC. NODE									
5675	0158	0217		5677R	A		023303	W045.9		NEMS - SCR - ITPR									
5675	0210	0257		5676R	B		042019	W072.7		0024	0217			5677R	A				
5676	0345	0408		5676R	B		060736	W099.5		0210	0407			5676R	B				
5676	0414	0444		5677R	B		075452	W126.3		0414	0550			5677R	B				
5677	0533	0550		5677R	B		094209	W153.2		0556	0735			5678A	B				
5677	0557	0631		5678A	B		112925	180.0		0739	0919			5679A	B				
5678	0720	0734		5678A	B		131642	E153.2		0924	1103			5680A	B				
5678*	0739	0819		5679A	B		150358	E126.4		1107	1252			5681A	B				
5679	0907	0918		5679A	B		165114	E099.6		1257	1437			5682A	B				
5679	0924	1006		5680A	B		183831	E072.7		1441	1620			5683A	B				
5680	1055	1102		5680A	B		202547	E045.9		1625	1805			5684A	B				
5680	1108	1153		5681A	B		221304	E019.1		1809	1949			5685A	B				
5681	1242	1251		5681A	B		000020	W007.7		1954	2139			5686A	B				
5681	1257	1340		5682A	B					2144	2325			5687A	B				
5682	1429	1435		5682A	B														
5682	1441	1528		5683A	B														
5683	1624	1715		5684A	B														
5684	1809	1902		5685A	B														
5685	1954	2050		5686A	B														
5686	2144	2237		5687A	B														
5687	2335	0024		5690R	A														

* NO 6.7 DATA

TABLE 2-2 (Continued)
DATA AVAILABILITY ON-OFF TIMES
8 FEBRUARY 1974

THIR										ESMR									
-----										-----									
DATA	11.5	+	6.7	INT	H	THIR	ASC. AND			DATA	ON	OFF	INT	H					
ORBIT	ON	OFF		ORBIT	D	GRID	DESC. NODE			ORBIT	HRMN	HRMN	ORBIT	D					
	HRMN	HRMN		+	R	CORR	TIME LONG						+	R					
				STDN	S	LALO	HRMNSS DEG						STDN	S					
DAYTIME THIR										ASC. NODE									
5688	0024	0113		5690R	A		005400 E158.9			5688	2325	0123	5690R	A					
5689							024116 E132.1			5690	0313	0504	5690R	B					
5690	0359	0447		5690R	B		042833 E105.3			5691	0512	0653	5691R	B					
5691	0546	0635		5691R	B		061549 E078.4			5692	0658	0836	5692A	B					
5692	0733	0822		5692A	B		080306 E051.6			5693	0841	1020	5693A	B					
5693	0920	1009		5693A	B		095022 E024.8			5694	1026	1210	5694A	B					
5694	1108	1156		5694A	B		113738 W002.0			5695	1215	1351	5695A	B					
5695	1255	1344		5695A	B		132455 W028.8			5696	1356	1535	5696A	B					
5696	1442	1531		5696A	B		151211 W055.7			5697	1540	1720	5697A	B					
5697	1630	1718		5697A	B		165928 W082.5			5698	1725	1901	5698A	B					
5698	1817	1856		5698A	B		184644 W109.3			5699	1907	2051	5699A	B					
5699	2004	2049		5699A	B		203401 W136.1			5700	2057	2238	5700A	B					
5700	2151	2235		5700A	B		222117 W163.0												
NIGHTTIME THIR										DESC. NODE									
5688	0113	0123		5690R	A		014737 W034.5			NEMS - SCR - ITPR									
5689	0312	0359		5690R	B		033453 W061.4			-----									
5690	0447	0500		5690R	B		052210 W088.2			2325	0124		5690R	A					
5690	0510	0546		5691R	B					0313	0504		5690R	B					
5691	0635	0653		5691R	B		070926 W115.0			0510	0653		5691R	B					
5691	0658	0733		5692A	B					0658	0836		5692A	B					
5692	0822	0829		5692A	B		085643 W141.8			0841	1021		5693A	B					
5692	0841	0920		5693A	B					1026	1211		5694A	B					
5693	1009	1020		5693A	B		104359 W168.6			1216	1351		5695A	B					
5693	1026	1108		5694A	B					1356	1535		5696A	B					
5694	1156	1209		5694A	B		123116 E164.6			1540	1720		5697A	B					
5694	1216	1255		5695A	B					1725	1902		5698A	B					
5695	1344	1349		5695A	B		141832 E137.7			1906	2052		5699A	B					
5695	1356	1442		5696A	B					2057	2238		5700A	B					
5696	1540	1630		5697A	B		160549 E110.9												
5697	1725	1817		5698A	B		175305 E084.1												
5698	1906	2004		5699A	B		194022 E057.3												
5699	2057	2151		5700A	B		212738 E030.5												
5700							231455 E003.7												

TABLE 2-2 (Continued)
DATA AVAILABILITY ON-OFF TIMES
9 FEBRUARY 1974

THIR										ESMR				
DATA		11.5 + 6.7		INT	H	THIR	ASC. AND					INT	H	
ORBIT	ON	OFF	ORBIT	R	GRID	DESC. NODE	TIME	LONG		DATA	ON	OFF	ORBIT	D
	HRMN	HRMN	STDN	S	CORR	HRMNSS	DEG			ORBIT	HRMN	HRMN	STDN	R
				S	LALO									S
DAYTIME THIR					ASC. NODE									
5701						000834	E170.2			5702	0040	0231	5703R	A
5702	0126	0215	5703R	A		015550	E143.4			5703	0227	0422	5703R	B
5703	0313	0402	5703R	B		034307	E116.6			5704	0427	0608	5704R	B
5704	0501	0549	5704R	B		053023	E089.8			5705	0613	0748	5705A	B
5705	0648	0737	5705A	B		071740	E063.0			5706	0753	0934	5706A	B
5706	0835	0924	5706A	B		090456	E036.2			5707	0939	1119	5707A	B
5707	1022	1111	5707A	B		105213	E009.3			5708	1125	1306	5708A	B
5708	1210	1258	5708A	B		123929	W017.5			5709	1311	1452	5709A	B
5709	1357	1446	5709A	B		142646	W044.3			5710	1457	1636	5710A	B
5710	1544	1633	5710A	B		161402	W071.1			5711	1641	1820	5711A	B
5711	1732	1817	5711A	B		180119	W097.9			5712	1826	2004	5712A	B
5712	1919	2003	5712A	B		194835	W124.8			5713	2009	2152	5713A	B
5713	2106	2150	5713A	B		213551	W151.6							
5714						232308	W178.4							
NIGHTTIME THIR					DESC. NODE					NEMS - SCR - ITPR				
5701	0040	0126	5703R	A		010211	W023.2			0040	0231	5703R	A	
5702	0215	0230	5703R	B		024928	W050.0			0227	0422	5703R	B	
5702	0227	0313	5703R	B						0427	0608	5704R	B	
5703	0402	0420	5703R	B		043644	W076.8			0613	0749	5705A	B	
5703	0427	0501	5704R	B						0753	0934	5706A	B	
5704	0549	0607	5704R	B		062400	W103.6			0939	1119	5707A	B	
5704	0613	0648	5705A	B						1124	1307	5708A	B	
5705	0737	0747	5705A	B		081117	W130.5			1311	1452	5709A	B	
5705	0753	0835	5706A	B						1457	1637	5710A	B	
5706	0924	0932	5706A	B		095833	W157.3			1642	1821	5711A	B	
5706	0939	1022	5707A	B						1826	2005	5712A	B	
5707	1111	1117	5707A	B		114550	E175.9			2009	2153	5713A	B	
5707	1124	1210	5708A	B										
5708	1258	1305	5708A	B		133306	E149.1							
5708	1311	1357	5709A	B										
5709	1457	1544	5710A	B		152023	E122.3							
5710	1642	1732	5711A	B		170739	E095.5							
5711	1826	1919	5712A	B		185456	E068.7							
5712	2009	2106	5713A	B		204212	E041.8							
5713						222929	E015.0							
5714	2356	0041	5717R	A		001645	W011.8							

TABLE 2-2 (Continued)
DATA AVAILABILITY ON-OFF TIMES
10 FEBRUARY 1974

THIR										ESMR									
-----										-----									
DATA	11.5 + 6.7		INT	H	THIR	ASC. AND				DATA			INT	H					
ORBIT	ON	OFF	ORBIT	D	GRID	DESC.	NODE	TIME	LONG	ORBIT	ON	OFF	ORBIT	D	TIME	LONG	DESC.	NODE	
	HRMN	HRMN	STDN	R	CORR	HRMNSS	DEG				HRMN	HRMN	STDN	R					
				S	LALO									S					
DAYTIME THIR										ASC. NODE									
5715	0041	0129	5717R	A		011024	E154.8			5715	2355	0150	5717R	A					
5716	0228	0317	5716R	B		025741	E128.0			5716	0151	0339	5716R	B					
5717	0415	0504	5717R	B		044457	E101.1			5717	0345	0521	5717R	B					
5718	0602	0651	5718R	B		063214	E074.3			5718	0528	0710	5718R	B					
5719	0750	0838	5719A	B		081930	E047.5			5719	0716	0850	5719A	B					
5720	0937	1026	5720A	B		100647	E020.7			5720	0855	1036	5720A	B					
5721	1124	1213	5721A	B		115403	W006.1			5721	1042	1225	5721A	B					
5722	1312	1400	5722A	B		134120	W033.0			5722	1230	1408	5722A	B					
5723	1459	1547	5723A	B		152836	W059.8			5723	1413	1552	5723A	B					
5724	1646	1734	5724A	B		171553	W086.6			5724	1558	1739	5724A	B					
5725	1833	1914	5725A	B		190309	W113.4			5725	1744	1919	5725A	B					
5726	2021	2104	5726A	B		205026	W140.2			5726	1924	2105	5726A	B					
5727	2208	2254	5727A	B		223742	W167.1			5727	2111	2255	5727A	B					
NIGHTTIME THIR										DESC. NODE									
5715	0129	0148	5717R	A		020402	W038.6			NEMS - SCR - ITPR									
5715	0144	0228	5716R	B		035118	W065.4			2356	0150	5717R	A						
5716	0317	0337	5716R	B		053835	W092.3			0143	0339	5716R	B						
5716	0345	0415	5717R	B		072551	W119.1			0346	0522	5717R	B						
5717	0504	0515	5717R	B		091308	W145.9			0527	0710	5718R	B						
5717	0527	0602	5718R	B		110024	W172.7			0716	0850	5719A	B						
5718	0651	0707	5718R	B		124741	E160.5			0855	1037	5720A	B						
5718	0716	0750	5719A	B		143457	E133.6			1042	1225	5721A	B						
5719	0838	0848	5719A	B		162213	E106.8			1230	1408	5722A	B						
5719	0855	0937	5720A	B		180930	E080.0			1413	1553	5723A	B						
5720	1026	1035	5720A	B		195646	E053.2			1558	1739	5724A	B						
5720*	1041	1124	5721A	B		214403	E026.4			1744	1920	5725A	B						
5721	1213	1223	5721A	B		233120	W000.5			1924	2106	5726A	B						
5721	1230	1312	5722A	B						2111	2255	5727A	B						
5722	1413	1459	5723A	B															
5723	1558	1646	5724A	B															
5724	1744	1833	5725A	B															
5725	1924	2021	5726A	B															
5726	2111	2208	5727A	B															
5727	2257	2355	5730R	A															

*NO 6.7 DATA

TABLE 2-2 (Continued)
DATA AVAILABILITY ON-OFF TIMES
11 FEBRUARY 1974

THIR										ESMR				
11.5 + 6.7		INT	H	THIR	ASC. AND				INT	H				
DATA	ON	OFF	ORBIT	D	GRID	DESC.	NODE		ORBIT	D				
ORBIT	HRMN	HRMN	STDN	R	CORR	TIME	LONG			R				
				S	LAL3	HRMNSS	DEG		DATA	ON	OFF	STDN	S	
									ORBIT	HRMN	HRMN			
DAYTIME THIR					ASC. NODE									
5728	2355	0044	5730R	A		002459	E166.1		5728	2257	0054	5730R	A	
5729						021215	E139.3		5730	0243	0437	5730R	B	
5730	0330	0419	5730R	B		035931	E112.5		5731	0443	0624	5731R	B	
5731	0517	0606	5731R	B		054648	E085.7		5732	0630	0805	5732A	B	
5732	0704	0753	5732A	B		073404	E058.8		5733	0810	0950	5733A	B	
5733	0852	0940	5733A	B		092121	E032.0		5734	0956	1140	5734A	B	
5734	1039	1128	5734A	B		110837	E005.2		5735	1146	1323	5735A	B	
5735	1226	1315	5735A	B		125554	W021.6		5736	1328	1509	5736A	B	
5736	1414	1502	5736A	B		144310	W048.4		5737	1514	1650	5737A	B	
5737	1601	1649	5737A	B		163027	W075.3		5738	1656	1833	5738A	B	
5738	1748	1831	5738A	B		181743	W102.1		5739	1839	2020	5739A	B	
5739	1935	2018	5739A	B		200500	W128.9		5740	2025	2207	5740A	B	
5740	2123	2206	5740A	B		215216	W155.7							
5741						233933	E177.5							
NIGHTTIME THIR					DESC. NODE					NEMS - SCR - ITPR				
5728	0044	0053	5730R	A		011836	W027.3		2257	0054	5730R	A		
5729	0244	0330	5730R	B		030552	W054.1		0243	0438	5730R	B		
5730	0419	0436	5730R	B		045309	W080.9		0443	0625	5731R	B		
5730	0443	0517	5731R	B					0629	0806	5732A	B		
5731	0606	0623	5731R	B		064025	W107.7		0810	0951	5733A	B		
5731	0629	0704	5732A	B					0956	1140	5734A	B		
5732	0753	0804	5732A	B		082742	W134.6		1147	1323	5735A	B		
5732	0810	0852	5733A	B					1328	1509	5736A	B		
5733	0940	0949	5733A	B		101458	W161.4		1513	1651	5737A	B		
5733	0956	1039	5734A	B					1656	1834	5738A	B		
5734	1128	1138	5734A	B		120215	E171.8		1838	2020	5739A	B		
5734	1146	1226	5735A	B					2025	2207	5740A	B		
5735	1315	1321	5735A	B		134931	E145.0							
5735	1328	1414	5736A	B										
5736	1513	1601	5737A	B		153648	E118.2							
5737	1656	1748	5738A	B		172404	E091.3							
5738	1838	1935	5739A	B		191121	E064.5							
5739	2025	2123	5740A	B		205837	E037.7							
5740						224554	E010.9							
5741	0012	0057	5744R	A		003310	W015.9							

TABLE 2-2 (Continued)
DATA AVAILABILITY ON-OFF TIMES
12 FEBRUARY 1974

THIR										ESMR									
-----										-----									
DATA	11.5 + 6.7		INT	H	THIR	ASC. AND		DESC. NODE		DATA	ON OFF		INT	H	ASC. AND		DESC. NODE		DATA
ORBIT	HRMN	HRMN	ORBIT	D	GRID	TIME	LONG	TIME	DEG	ORBIT	HRMN	HRMN	ORBIT	D	TIME	LONG	TIME	DEG	ORBIT
			STDN	S	LALO	HRMNSS							STDN	S					
DAYTIME THIR										ASC. NODE									
5742	0057	0146	5744R	A		012649	E150.7			5742	0017	0206	5744R	A					
5743	0244	0333	5743R	B		031406	E123.9			5743	0158	0354	5743R	B					
5744	0432	0520	5744R	B		050122	E097.0			5744	0400	0539	5744R	B					
5745	0619	0708	5745A	B		064839	E070.2			5745	0544	0720	5745A	B					
5746	0806	0855	5746A	B		083555	E043.4			5746	0725	0908	5746A	B					
5747	0954	1042	5747A	B		102312	E016.6			5747	0913	1050	5747A	B					
5748	1141	1230	5748A	B		121028	W010.3			5748	1057	1240	5748A	B					
5749	1328	1417	5749A	B		135744	W037.1			5749	1245	1423	5749A	B					
5750	1515	1604	5750A	B		154501	W063.9			5750	1428	1607	5750A	B					
5751	1703	1748	5751A	B		173217	W090.7			5751	1613	1750	5751A	B					
5752	1850	1933	5752A	B		191934	W117.6			5752	1755	1935	5752A	B					
5753	2037	2123	5753A	B		210650	W144.4			5753	1940	2125	5753A	B					
5754	2225	2311	5754A	B		225407	W171.2			5754	2131	2313	5754A	B					
NIGHTTIME THIR										DESC. NODE									
5742	0146	0205	5744R	A		022026	W042.8			NEMS - SCR - ITPR									
5742	0157	0244	5743R	B						0012	0206	5744R	A						
5743	0333	0353	5743R	B		040743	W069.6			0158	0355	5743R	B						
5743	0400	0432	5744R	B						0400	0539	5744R	B						
5744	0520	0537	5744R	B		055459	W096.4			0544	0720	5745A	B						
5744	0544	0619	5745A	B						0725	0909	5746A	B						
5745	0708	0718	5745A	B		074216	W123.2			0914	1050	5747A	B						
5745	0725	0806	5746A	B						1055	1240	5748A	B						
5746	0855	0906	5746A	B		092932	W150.0			1245	1424	5749A	B						
5746	0914	0954	5747A	B						1428	1608	5750A	B						
5747	1042	1049	5747A	B		111649	W176.9			1613	1750	5751A	B						
5747	1055	1141	5748A	B						1754	1935	5752A	B						
5748	1230	1238	5748A	B		130405	E156.4			1939	2126	5753A	B						
5748	1245	1328	5749A	B						2131	2313	5754A	B						
5749	1428	1515	5750A	B		145122	E129.5												
5750	1612	1703	5751A	B		163838	E102.7												
5751	1754	1850	5752A	B		182555	E075.9												
5752	1939	2037	5753A	B		201311	E049.1												
5753	2130	2225	5754A	B		220028	E022.2												
5754	2314	0012	5757R	A		234744	W004.6												

TABLE 2-2 (Continued)
DATA AVAILABILITY ON-OFF TIMES
13 FEBRUARY 1974

THIR										ESMR									
-----										-----									
DATA	11.5	+	6.7	INT	H	THIR	ASC. AND			DATA	ON	OFF	INT	H					
ORBIT	ON	OFF	ORBIT	D	GRID	DESC. NODE	TIME	LONG		ORBIT	HRMN	HRMN	ORBIT	D					
	HRMN	HRMN	STDN	R	CORR	HRMNSS	DEG						STDN	R					
				S	LALO									S					
DAYTIME THIR										ASC. NODE									
5755	0012	0101	5757R	A		004123	E162.0			5755	2314	0110	5757R	A					
5756						022840	E135.2			5757	0259	0454	5757R	B					
5757	0346	0435	5757R	B		041556	E108.4			5758	0459	0641	5758R	B					
5758	0534	0622	5758R	B		060313	E081.6			5759	0647	0822	5759A	B					
5759	0721	0810	5759A	B		075029	E054.8			5760	0827	1012	5760A	B					
5760	0908	0957	5760A	B		093746	E027.9			5761	1017	1154	5761A	B					
5761	1056	1144	5761A	B		112502	E001.1			5762	1159	1339	5762A	B					
5762	1243	1332	5762A	B		131219	W025.7			5763	1344	1524	5763A	B					
5763	1430	1519	5763A	B		145935	W052.5			5764	1529	1706	5764A	B					
5764	1617	1705	5764A	B		164652	W079.3			5765	1711	1849	5765A	B					
5765	1805	1848	5765A	B		183408	W106.2			5766	1855	2035	5766A	B					
5766	1952	2033	5766A	B		202124	W133.0			5767	2041	2224	5767A	B					
5767	2139	2220	5767A	B		220841	W159.8												
5768						235557	E173.4												
NIGHTTIME THIR										DESC. NODE									
5755	0101	0110	5757R	A		013501	W031.4			NEMS - SCR - ITPR									
5756	0259	0346	5757R	B		032217	W058.2			-----									
5757	0435	0453	5757R	B		050934	W085.0			2314	0111	5757R	A						
5757	0500	0534	5758R	B						0259	0454	5757R	B						
5758	0622	0640	5758R	B		065650	W111.9			0459	0642	5758R	B						
5758	0647	0721	5759A	B						0647	0823	5759A	B						
5759	0810	0821	5759A	B		084407	W138.7			0827	1013	5760A	B						
5759	0827	0908	5760A	B						1017	1154	5761A	B						
5760	0957	1010	5760A	B		103123	W165.5			1158	1339	5762A	B						
5760	1017	1056	5761A	B						1343	1524	5763A	B						
5761	1144	1152	5761A	B		121839	E167.7			1529	1707	5764A	B						
5761	1158	1243	5762A	B						1711	1850	5765A	B						
5762	1344	1430	5763A	B		140556	E140.9			1854	2035	5766A	B						
5763	1529	1617	5764A	B		155312	E114.1			2041	2219	5767A	B						
5764	1711	1805	5765A	B		174029	E087.3												
5765	1854	1952	5766A	B		192745	E060.4												
5766	2041	2139	5767A	B		211502	E033.6												
5767						230218	E006.8												
5768	0028	0114	5771R	A		004935	W020.0												

TABLE 2-2 (Continued)
DATA AVAILABILITY ON-OFF TIMES
14 FEBRUARY 1974

THIR										ESMR									
-----										-----									
DATA	11.5	ON	6.7	INT	H	THIR	ASC. AND			DATA	ON	OFF	INT	H					
ORBIT	HRMN	HRMN	STDN	ORBIT	D	GRID	DESC. NODE			ORBIT	HRMN	HRMN	ORBIT	D					
				+	R	CORR	TIME LONG						+	R					
				STDN	S	LALO	HRMNSS DEG						STDN	S					
DAYTIME THIR										ASC. NODE									
5769	0114	0203	5771R	A			014314 E146.6			5769	0028	0221	5771R	A					
5770	0301	0350	5770R	B			033030 E119.7			5770	0215	0412	5770R	B					
5771	0448	0537	5771R	B			051747 E092.9			5771	0417	0554	5771R	B					
5772	0636	0724	5772A	B			070503 E066.1			5772	0600	0737	5772A	B					
5773	0823	0912	5773A	B			085220 E039.3			5773	0742	0921	5773A	B					
5774	1010	1059	5774A	B			103936 E012.5			5774	0927	1108	5774A	B					
5775	1157	1246	5775A	B			122653 W014.4			5775	1114	1255	5775A	B					
5776	1345	1433	5776A	B			141409 W041.2			5776	1300	1440	5776A	B					
5777	1532	1621	5777A	B			160126 W068.0			5777	1445	1624	5777A	B					
5778	1719	1807	5778A	B			174842 W094.8			5778	1629	1809	5778A	B					
5779	1907	1949	5779A	B			193559 W121.6			5779	1814	1952	5779A	B					
5780	2054	2141	5780A	B			212315 W148.5			5780	1956	2127	5780A	B					
5781							231032 W175.3												
NIGHTTIME THIR										DESC. NODE									
5769	0203	0221	5771R	A			023651 W046.8												
5769	0215	0301	5770R	B			042408 W073.7												
5770	0350	0410	5770R	B			061124 W100.5												
5770	0417	0448	5771R	B			075841 W127.3												
5771	0537	0553	5771R	B			094557 W154.1												
5771	0559	0636	5772A	B			113314 E179.1												
5772	0724	0735	5772A	B			132030 E152.2												
5772	0741	0823	5773A	B			150747 E125.4												
5773	0912	0920	5773A	B			165503 E098.6												
5773	0926	1010	5774A	B			184219 E071.8												
5774	1059	1107	5774A	B			202936 E045.0												
5774	1113	1157	5775A	B			221652 E018.2												
5775	1246	1253	5775A	B			000409 W008.7												
5775	1300	1345	5776A	B															
5776	1433	1439	5776A	B															
5776	1446	1532	5777A	B															
5777	1628	1719	5778A	B															
5778	1820	1907	5779A	B															
5779	1956	2054	5780A	B															
5780																			
5781	2343	0028	5784R	A															

NEMS - SCR - ITPR									

0028	0221	5771R	A						
0214	0412	5770R	B						
0417	0554	5771R	B						
0559	0737	5772A	B						
0742	0922	5773A	B						
0926	1109	5774A	B						
1114	1255	5775A	B						
1300	1441	5776A	B						
1445	1624	5777A	B						
1629	1809	5778A	B						
1814	1951	5779A	B						
1956	2127	5780A	B						

TABLE 2-2 (Continued)
DATA AVAILABILITY ON-OFF TIMES
15 FEBRUARY 1974

THIR					ESMR				
DATA	11.5	6.7	INT	H	THIR	ASC. AND		INT	H
ORBIT	ON	OFF	ORBIT	D	GRID	DESC. NODE		ORBIT	D
	HRMN	HRMN	STDN	R	CORR	TIME LONG		STDN	R
				S	LALO	HRMNSS DEG			S
DAYTIME THIR					ASC. NODE				
5782	0028	0117	5784R	A		005748 E157.9	5782	2343	0138
5783	0235	0304	5784R	B		024504 E131.1	5784	0235	0433
5784	0403	0432	5784R	B		043221 E104.2	5785	0515	0700
5785	0550	0639	5785R	B		061937 E077.5	5786	0705	0838
5786	0738	0826	5786A	B		080654 E050.6	5787	0843	1029
5787	0925	1014	5787A	B		095410 E023.8	5788	1034	1211
5788	1112	1201	5788A	B		114127 W003.0	5789	1216	1353
5789	1259	1348	5789A	B		132843 W029.9	5790	1358	1540
5790	1447	1535	5790A	B		151600 W056.7	5791	1544	1727
5791	1634	1723	5791A	B		170316 W083.5	5792	1731	1906
5792	1821	1904	5792A	B		185033 W110.3	5793	1911	2053
5793	2009	2051	5793A	B		203749 W137.1	5794	2058	2240
5794	2156	2236	5794A	B		222506 W163.9			
NIGHTTIME THIR					DESC. NODE				
5782	0117	0137	5784R	A		015125 W035.5	2343	0138	5484R
5783	0304	0403	5784R	B		033842 W062.3	0235	0433	5484R
5784	0515	0550	5785R	B		052558 W089.1	0515	0659	5485R
5785	0639	0658	5785R	B		071315 W115.9	0705	0838	5486A
5785	0705	0738	5786A	B			0843	1029	5487A
5786	0826	0836	5786A	B		090031 W142.8	1034	1211	5488A
5786	0843	0925	5787A	B			1216	1353	5489A
5787	1014	1027	5787A	B		104748 W169.6	1357	1539	5490A
5787	1033	1112	5788A	B			1544	1727	5491A
5788	1201	1208	5788A	B		123504 E163.6	1732	1906	5492A
5788	1216	1259	5789A	B			1910	2053	5493A
5789	1358	1447	5790A	B		142221 E136.8	2058	2240	5494A
5790	1545	1634	5791A	B		160937 E110.0			
5791	1732	1821	5792A	B		175654 E083.1			
5792	1910	2009	5793A	B		194410 E056.3			
5793	2057	2156	5794A	B		213127 E029.5			
5794						231843 E002.7			
					NEMS - SCR - ITPR				

TABLE 2-2 (Continued)
DATA AVAILABILITY ON-OFF TIMES
16 FEBRUARY 1974

THIR						ESMR					
DATA	11.5	+ 6.7	INT	H	THIR	ASC. AND			INT	H	
ORBIT	ON	OFF	ORBIT	D	GRID	DESC. NODE			ORBIT	D	
	HRMN	HRMN	STDN	R	CORR	TIME LONG			STDN	R	
				S	LALO	HRMNSS DEG				S	
DAYTIME THIR						ASC. NODE					
5795						001222 E169.2	5796	0046	0237	5798R	A
5796	0130	0219	5798R	A		015939 E142.4	5797	0231	0426	5797R	B
5797	0318	0406	5797R	B		034655 E115.6	5798	0432	0611	5798R	B
5798	0505	0554	5798R	B		053412 E088.8	5799	0617	0752	5799A	B
5799	0652	0741	5799A	B		072128 E062.0	5800	0757	0940	5800A	B
5800	0840	0928	5800A	B		090844 E035.1	5801	0945	1123	5801A	B
5801	1027	1116	5801A	B		105601 E008.3	5802	1129	1311	5802A	B
5802	1214	1303	5802A	B		124317 W018.5	5803	1316	1454	5803A	B
5803	1401	1450	5803A	B		143034 W045.3	5804	1459	1639	5804A	B
5804	1549	1637	5804A	B		161750 W072.1	5805	1643	1823	5805A	B
5805	1736	1822	5805A	B		180507 W099.0	5806	1829	2007	5806A	B
5806	1923	2006	5806A	B		195223 W125.8	5807	2012	2159	5807A	B
5807	2110	2157	5807A	B		213940 W152.6					
5808						232656 W179.4					
NIGHTTIME THIR						DESC. NODE	NEMS - SCR - ITPR				
5795	0046	0130	5798R	A		010559 W024.2	0046	0237	5798R	A	
5796	0219	0236	5798R	A		025316 W051.0	0231	0427	5797R	B	
5796	0231	0318	5797R	B			0432	0611	5798R	B	
5797	0406	0425	5797R	B		044032 W077.8	0617	0753	5799A	B	
5797	0432	0505	5798R	B			0757	0940	5800A	B	
5798	0554	0609	5798R	B		062749 W104.6	0945	1124	5801A	B	
5798	0617	0652	5799A	B			1129	1311	5802A	B	
5799	0741	0751	5799A	B		081505 W131.4	1316	1455	5803A	B	
5799	0757	0840	5800A	B			1459	1638	5804A	B	
5800	0928	0938	5800A	B		100222 W158.3	1643	1823	5805A	B	
5800	0944	1027	5801A	B			1829	2007	5806A	B	
5801	1116	1122	5801A	B		114938 E174.9	2012	2159	5807A	B	
5801	1128	1214	5802A	B							
5802	1303	1309	5802A	B		133655 E148.1					
5802	1315	1401	5803A	B							
5803	1459	1549	5804A	B		152411 E121.3					
5804	1643	1736	5805A	B		171128 E094.5					
5805	1829	1923	5806A	B		185844 E067.7					
5806	2012	2110	5807A	B		204601 E040.8					
5807						223317 E014.0					
5808	2359	0045	5811R	A		002034 W012.8					

TABLE 2-2 (Continued)
DATA AVAILABILITY ON-OFF TIMES
17 FEBRUARY 1974

THIR										ESMR									
-----										-----									
DATA	11.5	+ 6.7	INT	H	THIR	ASC. AND				DATA	ON	OFF	INT	H	THIR	ASC. AND			
ORBIT	ON	OFF	ORBIT	D	GRID	DESC. NODE	TIME	LONG		ORBIT	HRMN	HRMN	ORBIT	D	GRID	DESC. NODE	TIME	LONG	
	HRMN	HRMN	STDN	R	CORR	HRMNSS	DEG						STDN	R	CORR	HRMNSS	DEG		
				S	LALO									S	LALO				
DAYTIME THIR										ASC. NODE									
5809	0045	0134	5811R	A		011413	E153.8			5809	2359	0153	5811R	A					
5810	0232	0321	5810R	B		030129	E127.0			5810	0153	0343	5810R	B					
5811	0420	0508	5811R	B		044846	E100.1			5811	0353	0525	5811R	B					
5802	0607	0656	5812R	B		063602	E073.3			5812	0532	0713	5812R	B					
5813	0754	0843	5813A	B		082319	E046.5			5813	0719	0855	5813A	B					
5814	0941	1030	5814A	B		101035	E019.7			5814	0900	1032	5814A	B					
5815	1129	1217	5815A	B		115752	W007.1			5815	1049	1227	5815A	B					
5816	1316	1405	5816A	B		134508	W034.0			5816	1231	1415	5816A	B					
5817	1503	1552	5817A	B		153225	W060.8			5817	1420	1555	5817A	B					
5818	1651	1736	5818A	B		171941	W087.6			5818	1600	1737	5818A	B					
5819	1838	1920	5819A	B		190657	W114.4			5819	1743	1920	5819A	B					
5820	2025	2108	5820A	B		205414	W141.2			5820	1927	2109	5820A	B					
5821	2212	2255	5821A	B		224130	W168.1			5821	2114	2258	5821A	B					
NIGHTTIME THIR										DESC. NODE									
5809	0134	0152	5811R	A		020750	W039.6												
5809	0154	0232	5810R	B		035507	W066.5												
5810	0321	0341	5810R	B		054223	W093.3												
5810	0353	0420	5811R	B		072940	W120.1												
5811	0508	0524	5811R	B		091656	W146.9												
5811	0531	0607	5812R	B		110412	W173.7												
5812	0656	0712	5812R	B		125129	E159.5												
5812	0719	0754	5813A	B		143845	E132.6												
5813	0843	0854	5813A	B		162602	E105.8												
5813	0901	0941	5814A	B		181318	E079.0												
5814	1030	1042	5814A	B		200035	E052.2												
5814	1049	1129	5815A	B		214751	E025.4												
5815	1217	1225	5815A	B		233508	W001.5												
5815	1232	1316	5816A	B															
5816	1405	1413	5816A	B															
5816	1419	1503	5817A	B															
5817	1600	1651	5818A	B															
5818	1743	1838	5819A	B															
5819	1927	2025	5820A	B															
5820	2114	2212	5821A	B															
5821																			

TABLE 2-2 (Continued)
DATA AVAILABILITY ON-OFF TIMES
18 FEBRUARY 1974

THIR										ESMR				
-----										-----				
11.5 + 6.7		INT	H	THIR	ASC. AND							INT	H	
DATA	ON	OFF	ORBIT	D	GRID	DESC.	NODE		DATA	ON	OFF	ORBIT	D	
ORBIT	HRMN	HRMN	+	R	CORR	TIME	LONG		ORBIT	HRMN	HRMN	+	R	
			STDN	S	LALO	HRMNSS	DEG					STDN	S	
DAYTIME THIR						ASC. NODE								
5822						002847	E165.1		5823	0059	0252	5824R	A	
5823	0147	0236	5824R	A		021603	E138.3		5824	0248	0440	5824R	B	
5824	0334	0423	5824R	B		040320	E111.5		5825	0448	0629	5825R	B	
5825	0522	0610	5825R	B		055036	E084.7		5826	0635	0809	5826A	B	
5826	1044	1132	5828A	B		111226	E004.2		5829	1145	1325	5829A	B	
5829	1231	1320	5829A	B		125942	W022.6		5830	1331	1511	5830A	B	
5830	1418	1507	5830A	B		144659	W049.4		5831	1517	1655	5831A	B	
5831	1605	1654	5831A	B		163415	W076.2		5832	1700	1839	5832A	B	
5832	1753	1838	5832A	B		182132	W103.1		5833	1844	2025	5833A	B	
5833	1940	2023	5833A	B		200848	W129.9		5834	2030	2215	5834A	B	
5834	2127	2213	5834A	B		215605	W156.7		5835	2215	0012	5838R	A	
5835	2315	0003	5838R	A		234321	E176.5							
NIGHTTIME THIR						DESC. NODE								
						NEMS - SCR - ITPR								

5822	0100	0147	5824R	A		012224	W028.3		0100	0252	5824R	A		
5823	0236	0252	5824R	A		030941	W055.1		0248	0441	5824R	B		
5823	0248	0334	5824R	B					0448	0629	5825R	B		
5824	0423	0440	5824R	B		045657	W081.9		0634	0809	5826A	B		
5824	0448	0522	5825R	B					0814	0955	5827A	B		
5825	0610	0628	5825R	B		064414	W108.7		1000	1140	5828A	B		
5825	0635	0709	5826A	B					1144	1326	5829A	B		
5826	0758	0807	5826A	B		083130	W135.6		1331	1512	5830A	B		
5826	0814	0856	5827A	B					1517	1655	5831A	B		
5827	0945	0954	5827A	B		101847	W162.4		1659	1839	5832A	B		
5827	1000	1044	5828A	B					1844	2025	5833A	B		
5828	1132	1138	5828A	B		120603	E170.8		2030	2215	5834A	B		
5828	1144	1231	5829A	B					2215	0013	5838R	A		
5829	1331	1418	5830A	B		135319	E144.0							
5830	1517	1605	5831A	B		154036	E117.2							
5831	1700	1753	5832A	B		172752	E090.4							
5832	1844	1940	5833A	B		191509	E063.5							
5833	2030	2127	5834A	B		210225	E036.7							
5834	2216	2315	5838R	A		224942	E009.9							
5835	0003	0011	5838R	A		003658	W016.9							

TABLE 2-2 (Continued)
DATA AVAILABILITY ON-OFF TIMES
19 FEBRUARY 1974

THIR										ESMR									
-----										-----									
DATA	11.5 + 6.7		INT	H	THIR	ASC. AND		DESC. NODE		DATA	ON	OFF	INT	H	DESC. NODE		DATA	ON	OFF
ORBIT	HRMN	HRMN	ORBIT	D	GRID	TIME	LONG	HRMNSS	DEG	ORBIT	HRMN	HRMN	ORBIT	D	TIME	LONG	ORBIT	HRMN	HRMN
			+	R	CORR								+	R					
			STDN	S	LALO								STDN	S					
DAYTIME THIR										ASC. NODE									
5836										013038	E149.7						5837	0202	0359
5837	0249	0338	5837R	B						031754	E122.9						5838	0405	0542
5838	0436	0522	5838R	B						050510	E096.0						5839	0548	0724
5839	0624	0712	5839A	B						065227	E069.2						5840	0729	0910
5840	0811	0900	5840A	B						083943	E042.4						5841	0915	1100
5841	0958	1047	5841A	B						102700	E015.6						5842	1105	1242
5842	1145	1234	5842A	B						121416	W011.2						5843	1247	1426
5843	1333	1422	5843A	B						140133	W038.1						5844	1431	1611
5844	1520	1609	5844A	B						154849	W064.9						5845	1617	1756
5845	1707	1754	5845A	B						173606	W091.7						5846	1801	1939
5846	1855	1938	5846A	B						192322	W118.5						5847	1945	2125
5847	2042	2124	5847A	B						211039	W145.3						5848	2130	2313
5848	2229	2312	5848A	B						225755	W172.2								
NIGHTTIME THIR										DESC. NODE									
5836	0202	0249	5837R	B						022415	W043.7						0202	0359	5837R
5837	0338	0359	5837R	B						041131	W070.6						0405	0542	5838R
5837	0405	0436	5838R	B													0548	0724	5839A
5838	0548	0624	5839A	B						055848	W097.4						0729	0910	5840A
5839	0712	0722	5839A	B						074604	W124.2						0915	1100	5841A
5839	0729	0811	5840A	B													1105	1242	5842A
5840	0900	0909	5840A	B						093321	W151.0						1247	1427	5843A
5840	0915	0958	5841A	B													1432	1612	5844A
5841	1047	1059	5841A	B						112037	W177.8						1617	1756	5845A
5841	1105	1145	5842A	B													1801	1940	5846A
5842	1234	1240	5842A	B						130754	E155.4						1945	2126	5847A
5842	1247	1333	5843A	B													2130	2313	5848A
5843	1432	1520	5844A	B						145510	E128.5								
5844	1617	1707	5845A	B						164227	E101.7								
5845	1801	1855	5846A	B						182943	E074.9								
5846	1945	2042	5847A	B						201700	E048.1								
5847	2131	2229	5848A	B						220416	E021.3								
5848										235132	W005.6								

TABLE 2-2 (Continued)
DATA AVAILABILITY ON-OFF TIMES
20 FEBRUARY 1974

THIR										ESMR									
11.5 + 6.7		INT	H	THIR	ASC. AND								INT	H					
DATA	ON	OFF	ORBIT	D	GRID	DESC.	NODE	TIME	LONG	DATA	ON	OFF	ORBIT	D	TIME	LONG	TIME	LONG	
ORBIT	HRMN	HRMN	STDN	R	CORR	HRMNS	DEG			ORBIT	HRMN	HRMN	STDN	R					
DAYTIME THIR										ASC. NODE									
5849						004512	E161.0			5850	0117	0307	5851R	A					
5850	0204	0253	5851R	A		023228	E134.2			5851	0304	0458	5851R	B					
5851	0351	0440	5851R	B		041945	E107.4			5852	0504	0645	5852R	B					
5852	0538	0627	5852R	B		060701	E080.6			5853	0650	0825	5853A	B					
5853	0726	0814	5853A	B		075418	E053.8			5854	0829	1010	5854A	B					
5854	0913	1002	5854A	B		094134	E026.9			5855	1016	1155	5855A	B					
5855	1100	1149	5855A	B		112850	E000.1			5856	1201	1343	5856A	B					
5856	1247	1336	5856A	B		131607	W026.7			5857	1348	1528	5857A	B					
5857	1435	1523	5857A	B		150323	W053.5			5858	1533	1711	5858A	B					
5858	1622	1710	5858A	B		165040	W080.3			5859	1716	1852	5859A	B					
5859	1809	1851	5859A	B		183756	W107.2			5860	1859	2040	5860A	B					
5860	1957	2038	5860A	B		202513	W134.0			5861	2045	2232	5861A	B					
5861	2144	2230	5861A	B		221229	W160.8			5862	2232	0029	5865R	A					
5862	2331	0020	5865R	A		235946	E172.4												
NIGHTTIME THIR										DESC. NODE									
5849	0117	0204	5851R	A		013849	W032.4			NEMS - SCR - ITPR									
5850	0253	0307	5851R	A		032605	W059.2			0117	0307	5851R	A						
5850	0304	0351	5851R	B						0304	0458	5851R	B						
5851	0440	0456	5851R	B		051322	W086.0			0503	0645	5852R	B						
5851	0504	0538	5852R	B						0650	0826	5853A	B						
5852	0627	0643	5852R	B		070038	W112.8			0827	1011	5854A	B						
5852	0650	0726	5853A	B						1016	1156	5855A	B						
5853	0814	0822	5853A	B		084755	W139.7			1201	1343	5856A	B						
5853	0830	0913	5854A	B						1348	1528	5857A	B						
5854	1002	1009	5854A	B		103511	W166.5			1534	1711	5858A	B						
5854	1016	1100	5855A	B						1716	1852	5859A	B						
5855*	1149	1154	5855A	B		122228	E166.7			1856	2040	5860A	B						
5855	1201	1247	5856A	B						2045	2232	5861A	B						
5856	1336	1342	5856A	B		140944	E139.9												
5856	1349	1435	5857A	B															
5857	1534	1622	5858A	B		155701	E113.1												
5858	1716	1809	5859A	B		174417	E086.3												
5859	1858	1957	5860A	B		193134	E059.4												
5860	2045	2144	5861A	B		211850	E032.6												
5861	2233	2331	5865R	A		330607	E005.8												
5862	0020	0028	5865R	A		005323	W021.0												

*NO 11.5 DATA

TABLE 2-2 (Continued)
DATA AVAILABILITY ON-OFF TIMES
21 FEBRUARY 1974

THIR										ESMR									
-----										-----									
		11.5 + 6.7		INT	H	THIR	ASC. AND					INT	H						
DATA	ON	OFF	ORBIT	D	GRID	DESC. NODE	TIME	LONG		DATA	ON	OFF	ORBIT	D					
ORBIT	HRMN	HRMN	STDN	R	CORR		HRMNSS	DEG		ORBIT	HRMN	HRMN	STDN	R					
				S	LALO									S					
DAYTIME THIR										ASC. NODE									
5863							014702	E145.6		5864	0219	0357	5864R	B					
5864	0306	0354	5864R	B			033419	E118.8		5865	0420	0559	5865R	B					
5865							052135	E091.9		5866	0604	0740	5866A	B					
5866	0640	0729	5866A	B			070852	E065.1		5867	0745	0925	5867A	B					
5867	0828	0916	5867A	B			085608	E038.3		5868	0932	1117	5868A	B					
5868	1015	1104	5868A	B			104325	E011.5		5869	1122	1258	5869A	B					
5869	1202	1251	5869A	B			123041	W015.4		5870	1304	1442	5870A	B					
5870	1349	1438	5870A	B			141758	W042.2		5871	1447	1625	5871A	B					
5871	1537	1625	5871A	B			160514	W069.0		5872	1631	1808	5872A	B					
5872	1724	1807	5872A	B			175231	W095.8		5873	1814	1955	5873A	B					
5873	1911	1953	5873A	B			193947	W122.6		5874	2000	2141	5874A	B					
5874	2059	2140	5874A	B			212703	W149.4											
5875							231420	W176.3											
NIGHTTIME THIR										DESC. NODE					NEMS - SCR - ITPR				
5863	0219	0306	5864R	A			024040	W047.8			0218	0415	5864R	B					
5864	0354	0414	5864R	A			042756	W074.7			0421	0559	5865R	B					
5865	0604	0640	5866A	B			061512	W101.5			0604	0741	5866A	B					
5866	0729	0740	5866A	B			080229	W128.3			0745	0926	5867A	B					
5866	0745	0828	5867A	B							0932	1117	5868A	B					
5867	0916	0925	5867A	B			094945	W155.1			1122	1258	5869A	B					
5867	0932	1015	5868A	B							1303	1442	5870A	B					
5868	1104	1115	5868A	B			113702	W178.1			1447	1626	5871A	B					
5868	1122	1202	5869A	B							1631	1809	5872A	B					
5869	1251	1257	5869A	B			132418	W151.3			1813	1955	5873A	B					
5869	1304	1349	5870A	B							2001	2142	5877A	B					
5870	1447	1537	5871A	B			151135	E124.4											
5871	1631	1724	5872A	B			165851	E097.6											
5872	1813	1911	5873A	B			184608	E070.8											
5873	2001	2059	5874A	B			203324	E044.0											
5874							222041	E017.2											
5875							000757	W009.7											

TABLE 2-2 (Continued)
DATA AVAILABILITY ON-OFF TIMES
22 FEBRUARY 1974

THIR										ESMR									
-----										-----									
DATA	11.5 + 6.7		INT	H	THIR	ASC. AND		DESC. NODE		DATA	ON OFF		INT	H	THIR	ASC. AND		DESC. NODE	
ORBIT	ON	OFF	ORBIT	D	GRID	TIME	LONG	TIME	LONG	ORBIT	HRMN	HRMN	ORBIT	D	GRID	TIME	LONG	TIME	LONG
			+	R	CORR								+	R	CORR				
			STDN	S	LALO	HRMNSS	DEG						STDN	S	LALO	HRMNSS	DEG		
DAYTIME THIR										ASC. NODE									
5876						010136	E156.9			5877	0133	0321	5878R	A					
5877	0220	0390	5878R	A		024853	E130.1			5878	0321	0513	5878R	B					
5878	0408	0456	5878R	B		043609	E103.3			5879	0519	0700	5879R	B					
5879	0555	0644	5879R	B		062326	E076.5			5880	0706	0842	5880A	B					
5880	0742	0831	5880A	B		081042	E049.7			5881	0847	1027	5881A	B					
5881	0930	1018	5881A	B		095759	E022.8			5882	1032	1213	5882A	B					
5882	1117	1206	5882A	B		114515	W004.0			5883	1218	1359	5883A	B					
5883	1304	1353	5883A	B		133232	W030.8			5884	1404	1543	5884A	B					
5884	1451	1540	5884A	B		151948	W057.6			5885	1548	1725	5885A	B					
5885	1639	1725	5885A	B		170705	W084.5			5886	1730	1912	5886A	B					
5886	1826	1911	5886A	B		185421	W111.3			5887	1918	2056	5887A	B					
5887	2013	2055	5887A	B		204138	W138.1			5888	2103	2247	5888A	B					
5888	2200	2246	5888A	B		222854	W164.9												
NIGHTTIME THIR										DESC. NODE									
5876	0133	0220	5878R	A		015514	W036.5			NEMS - SCR - ITPR									
5877	0309	0321	5878R	A		034230	W063.3			0133	0321	5878R	A						
5877	0321	0408	5878R	B						0322	0513	5878R	B						
5878	0456	0512	5878R	B		052947	W090.1			0519	0700	5879R	B						
5878	0519	0555	5879R	B						0706	0843	5880A	B						
5879	0644	0658	5879R	B		071703	W116.9			0847	1027	5881A	B						
5879	0706	0742	5880A	B						1031	1213	5882A	B						
5880	0831	0841	5880A	B		090420	W143.8			1218	1400	5883A	B						
5880	0847	0930	5881A	B						1405	1543	5884A	B						
5881	1018	1025	5881A	B		105136	W170.6			1548	1726	5885A	B						
5881	1032	1117	5882A	B						1730	1913	5886A	B						
5882	1206	1211	5882A	B		123852	E162.6			1918	2058	5887A	B						
5882	1218	1304	5883A	B						2103	2248	5888A	B						
5883	1405	1451	5884A	B		142609	E135.8												
5884	1548	1639	5885A	B		161325	E109.0												
5885	1730	1826	5886A	B		180042	E082.2												
5886	1918	2013	5887A	B		194758	E055.3												
5887	2103	2200	5888A	B		213515	E028.5												
5888						232231	E001.7												

TABLE 2-2 (Continued)
DATA AVAILABILITY ON-OFF TIMES
23 FEBRUARY 1974

THIR					ESMR				
-----					-----				
DATA	11.5	6.7	INT	H	THIR	ASC. AND		INT	H
ORBIT	ON	OFF	ORBIT	D	GRID	DESC. NODE		ORBIT	D
	HRMN	HRMN	STDN	R	CORR	TIME	LUNG	STDN	R
				S	LALO	HRMNSS	U&G		S
DAYTIME THIR					ASC. NODE				
5889						001611	E168.3	5890	0048 0240 5891R B
5890	0135	0224	5891R	A		020327	E141.5	5891	0235 0431 5891R B
5891	0322	0411	5891R	B		035044	E114.6	5892	0436 0615 5892R B
5892	0510	0558	5892R	B		053800	E087.8	5893	0621 0756 5893A B
5893	0657	0746	5893A	B		072516	E061.0	5894	0801 0943 5894A B
5894	0844	0933	5894A	B		091233	E034.2	5895	0948 1133 5895A B
5895	1031	1120	5895A	B		105949	E007.4	5896	1138 1315 5896A B
5896	1219	1308	5896A	B		124706	W019.5	5897	1320 1458 5897A B
5897	1406	1455	5897A	B		143422	W046.3	5898	1504 1642 5898A B
5898*	1553	1641	5898A	B		162139	W073.1	5899	1647 1824 5899A B
5899*	1741	1823	5899A	B		180855	W099.9	5900	1830 2012 5900A B
5900	1928	2011	5900A	B		195612	W126.7	5901	2018 2158 5901A B
5901	2115	2156	5901A	B		214328	W153.6		
5902						233045	E179.6		

*NO 6.7 DATA

NIGHTTIME THIR					DESC. NODE				
-----					-----				
5889	0048	0135	5891R	A		010948	W025.1	0048 0240	5891R A
5890	0224	0239	5891R	B		025704	W052.0	0234 0431	5891R B
5890	0235	0332	5891R	B				0437 0616	5892R B
5891	0411	0427	5891R	B		044421	W078.8	0621 0757	5893A B
5891	0436	0510	5892R	B				0801 0943	5894A B
5892	0558	0614	5892R	B		063137	W105.6	0948 1133	5895A B
5892	0621	0657	5893A	B				1138 1316	5896A B
5893	0746	0755	5893A	B		081854	W132.4	1320 1459	5897A B
5893	0801	0844	5894A	B				1504 1643	5898A B
5894	0933	0941	5894A	B		100610	W159.2	1647 1825	5899A B
5894	0948	1031	5895A	B				1829 2013	5900A B
5895	1120	1131	5895A	B		115327	E174.0	2018 2158	5901A B
5895	1138	1219	5896A	B					
5896	1308	1314	5896A	B		134043	E147.1		
5896	1320	1406	5897A	B					
5897*	1504	1553	5898A	B		152759	E120.3		
5898*	1647	1741	5899A	B		171516	E093.5		
5899	1829	1928	5900A	B		190232	E066.7		
5900	2019	2115	5901A	B		204949	E039.9		
5901						223705	E013.1		
5902	0003	0050	5905R	A		002422	W013.8		

*NO 6.7 DATA

TABLE 2-2 (Continued)
DATA AVAILABILITY ON-OFF TIMES
24 FEBRUARY 1974

THIR										ESMR									
		11.5 + 6.7		INT	H	THIR	ASC. AND					ON OFF		INT	H				
DATA	ON	OFF		ORBIT	D	GRID	DESC.	TIME	LONG	DATA	ON	OFF		ORBIT	D				
ORBIT	HRMN	HRMN	STDN	S	LALO	HRMNSS	DEG			ORBIT	HRMN	HRMN	STDN	S	LALO				
DAYTIME THIR										ASC. NODE									
5903	0050	0138		5905R	A		011801	E152.8		5903	0003	0159		5905R	A				
5904	0237	0326		5904R	B		030518	E126.0		5904	0206	0348		5904R	B				
5905	0424	0513		5905R	B		045234	E099.2		5905	0354	0530		5905R	B				
5906	0612	0700		5906R	B		063951	E072.4		5906	0536	0716		5906R	B				
5907	0759	0848		5907A	B		082707	E045.5		5907	0722	0858		5907A	B				
5908	0946	1035		5908A	B		101424	E018.7		5908	0903	1043		5908A	B				
5909	1133	1222		5909A	B		120140	W008.1		5909	1048	1229		5909A	B				
5910	1321	1409		5910A	B		134856	W034.9		5910	1234	1416		5910A	B				
5911	1508	1557		5911A	B		153613	W061.7		5911	1422	1601		5911A	B				
5912	1655	1741		5912A	B		172329	W088.6		5912	1605	1743		5912A	B				
5913	1842	1924		5913A	B		191046	W115.4		5913	1748	1926		5913A	B				
5914	2030	2116		5914A	B		205802	W142.2		5914	1931	2116		5914A	B				
5915	2217	2300		5915A	B		224519	W169.0		5915	2123	2301		5915A	B				
NIGHTTIME THIR										DESC. NODE									
5903	0138	0157		5905R	A		021138	W040.6		NEMS - SCR - ITPR									
5903	0206	0237		5904R	B					0003	0158		5905R	A					
5904	0326	0347		5904R	B		035855	W067.4		0206	0348		5904R	B					
5904	0354	0424		5905R	B					0354	0530		5905R	B					
5905	0513	0529		5905R	B		054611	W094.2		0535	0717		5906R	B					
5905	0535	0612		5906R	B					0722	0858		5907A	B					
5906	0700	0716		5906R	B		073328	W121.1		0903	1044		5908A	B					
5906	0722	0759		5907A	B					1049	1229		5909A	B					
5907	0848	0856		5907A	B		092044	W147.9		1234	1417		5910A	B					
5907	0903	0946		5908A	B					1422	1601		5911A	B					
5908	1035	1042		5908A	B		110801	W174.7		1605	1743		5912A	B					
5908	1048	1133		5909A	B					1748	1926		5913A	B					
5909*	1222	1227		5909A	B		125517	E158.5		1931	2118		5914A	B					
5909	1234	1321		5910A	B					2122	2301		5915A	B					
5910	1409	1415		5910A	B		144234	E131.7											
5910	1422	1508		5911A	B														
5911	1605	1655		5912A	B		162950	E104.9											
5912	1748	1842		5913A	B		181707	E078.0											
5913	1931	2030		5914A	B		200423	E051.2											
5914	2122	2217		5915A	B		215139	E024.4											
5915							233856	W002.4											

*NO 11.5 DATA

TABLE 2-2 (Continued)
DATA AVAILABILITY ON-OFF TIMES
25 FEBRUARY 1974

THIR										ESMR				
11.5 + 6.7			INT	H	THIR	ASC. AND			INT			H		
DATA	ON	OFF	ORBIT	D	GRID	DESC.	TIME	LONG	ORBIT	D	R	S		
ORBIT	HRMN	HRMN	STDN	S	CORR	HRMNSS	DEG		STDN	S				
DAYTIME THIR						ASC. NODE								
5916						003235	E164.2		5917	0104	0255	5918R A		
5917	0152	0240	5918R	A		021952	E137.4		5918	0251	0445	5918R B		
5918	0339	0428	5918R	B		040708	E110.5		5919	0451	0632	5919R B		
5919	0526	0615	5919R	B		055425	E083.7		5920	0637	0812	5920A B		
5920	0713	0802	5920A	B		074141	E056.9		5921	0817	0959	5921A B		
5921	0901	0950	5921A	B	1E	092858	E030.1		5922	1003	1149	5922A B		
5922	1048	1137	5922A	B	1E	111614	E003.3		5913	1154	1330	5923A B		
5923	1235	1324	5923A	B		130331	W023.6		5924	1335	1515	5924A B		
5924	1423	1511	5924A	B		145047	W050.4		5925	1520	1659	5925A B		
5925	1610	1658	5925A	B		163804	W077.2		5926	1704	1841	5926A B		
5926	1757	1839	5926A	B		182520	W104.0		5927	1846	2027	5927A B		
5927	1944	2026	5927A	B		201237	W130.8		5928	2033	2217	5928A B		
5928	2132	2216	5928A	B		215953	W157.7		5929	2218	0016	5932R A		
5929	2319	0008	5932R	A		234709	E175.5							
NIGHTTIME THIR						DESC. NODE								
5916	0104	0152	5918R	A		012612	W029.2		0104	0255	5918R	A		
5917	0240	0254	5918R	A		031329	W056.1		0251	0442	5918R	B		
5917	0252	0339	5918R	B					0450	0632	5919R	B		
5918	0428	0442	5918R	B		050045	W082.9		0637	0813	5920R	B		
5918	0450	0526	5919R	B					0817	0959	5921R	B		
5919	0615	0630	5919R	B		064802	W109.7		1003	1149	5922R	B		
5919	0637	0713	5920A	B					1154	1330	5923R	B		
5920	0802	0811	5920A	B		083518	W136.5		1359	1516	5924R	B		
5920	0817	0901	5921A	B	1W				1521	1659	5925R	B		
5921	0950	0957	5921A	B	1W	102235	W163.3		1704	1841	5926R	B		
5921	1003	1048	5922A	B	1W				1846	2028	5927R	B		
5922	1137	1147	5922A	B	1W	120951	E169.9		2033	2218	5928A	B		
5922	1154	1235	5923A	B					2214	0017	5932R	A		
5923	1335	1423	5924A	B		135708	E143.0							
5924	1521	1610	5925A	B		154424	E116.2							
5925	1704	1757	5926A	B		173141	E089.4							
5926	1846	1944	5927A	B		191857	E062.6							
5927	2033	2132	5928A	B		210614	E035.8							
5928	2221	2319	5932R	A		225330	E008.9							
5929	0008	0015	5932R	A		004046	W017.9							

TABLE 2-2 (Continued)
DATA AVAILABILITY ON-OFF TIMES
26 FEBRUARY 1974

THIR										ESMR									
-----										-----									
		11.5 + 6.7		INT	H	THIR	ASC. AND					INT	H						
DATA	ON	OFF	ORBIT	D	GRID	DESC. NODE	TIME	LONG		DATA	ON	OFF	ORBIT	D					
ORBIT	HRMN	HRMN	STDN	R	CORR	HRMNSS	DEG			ORBIT	HRMN	HRMN	STDN	R					
				S	LALO									S					
DAYTIME THIR										ASC. NODE									
5930						013426	E148.7			5931	0205	0403	5931R	B					
5931	0254	0342	5931R	B		032142	E121.9			5932	0408	0540	5932R	B					
5932	0441	0530	5932R	B		050859	E095.1			5933	0552	0728	5933A	B					
5933	0628	0717	5933A	B		065615	E068.3			5964	0732	0913	5934A	B					
5934	0815	0904	5934A	B		084332	E041.4			5935	0919	1057	5935A	B					
5935	1003	1051	5935A	B		103048	E014.6			5936	1104	1245	5936A	B					
5936	1150	1239	5936A	B		121805	W012.2			5937	1250	1430	5937A	B					
5937	1337	1426	5937A	B		140521	W039.0			5938	1435	1615	5938A	B					
5938	1525	1613	5938A	B		155238	W065.8			5939	1620	1759	5939A	B					
5939	1712	1757	5939A	B		173954	W092.7			5940	1805	1942	5940A	B					
5940	1859	1941	5940A	B		192711	W119.5			5941	1947	2133	5941A	B					
5941	2046	2132	5941A	B		211427	W146.3			5942	2139	2319	5942A	B					
5942	2234	2317	5942A	B		230144	W173.1												
NIGHTTIME THIR										DESC. NODE					NEMS - SCR - ITPR				
5930	0206	0254	5931R	B		022803	W044.7			0205	0402	5931R	B						
5931	0342	0401	5931R	B		041519	W071.5			0408	0546	5932R	B						
5931	0408	0441	5932R	B						0551	0728	5933A	B						
5932	0530	0544	5932R	B		060236	W098.3			0732	0915	5934A	B						
5932	0551	0628	5933A	B						0919	1058	5935A	B						
5933	0717	0726	5933A	B		074952	W125.2			1103	1246	5936A	B						
5933	0739	0815	5934A	B						1251	1430	5937A	B						
5934	0904	0914	5934A	B		093709	W152.0			1434	1616	5938A	B						
5934	0919	1003	5935A	B						1620	1759	5939A	B						
5935	1051	1056	5935A	B		112425	W178.8			1805	1943	5940A	B						
5935	1103	1150	5936A	B						1947	2134	5941A	B						
5936	1251	1337	5937A	B		131142	E154.4			2138	2319	5942A	B						
5937	1435	1525	5938A	B		145858	E127.6												
5938	1620	1712	5939A	B		164615	E100.8												
5939	1805	1859	5940A	B		183331	E073.9												
5940	1947	2046	5941A	B		202048	E047.1												
5941	2138	2234	5942A	B		220804	E020.3												
5942						235521	W006.5												

NEMS - SCR - ITPR									

0205	0402	5931R	B						
0408	0546	5932R	B						
0551	0728	5933A	B						
0732	0915	5934A	B						
0919	1058	5935A	B						
1103	1246	5936A	B						
1251	1430	5937A	B						
1434	1616	5938A	B						
1620	1759	5939A	B						
1805	1943	5940A	B						
1947	2134	5941A	B						
2138	2319	5942A	B						

TABLE 2-2 (Continued)
DATA AVAILABILITY ON-OFF TIMES
27 FEBRUARY 1974

THIR										ESMR									
-----										-----									
		11.5 + 6.7		INT	H	THIR	ASC. AND							INT	H				
DATA	ON	OFF	ORBIT	D	GRID	DESC. NODE	TIME	LONG		DATA	ON	OFF	ORBIT	D	R				
ORBIT	HRMN	HRMN	STDN	R	CORR	HRMNSS	DEG			ORBIT	HRMN	HRMN	STDN	R	S				
DAYTIME THIR										ASC. NODE									
5943						004900	E160.1			5944	0120	0310	5945R	A					
5944	0208	0257	5945R	A		023617	E133.3			5945	0308	0500	5945R	B					
5945	0356	0444	5945R	B		042333	E106.4			5946	0507	0648	5946R	B					
5946	0543	0632	5946R	B		061049	E079.6			5947	0653	0830	5947A	B					
5947	0730	0819	5947A	B	14	075806	E052.8			5948	0835	1013	5948A	B					
5948	0917	1006	5948A	B		094522	E026.0			5949	1019	1204	5949A	B					
5949	1105	1153	5949A	B		113239	W000.9			5950	1209	1345	5950A	B					
5950	1252	1341	5950A	B		131955	W027.7			5951	1350	1530	5951A	B					
5951	1439	1527	5951A	B		150712	W054.5			5952	1534	1713	5952A	B					
5952	1626	1710	5952A	B		165428	W081.3			5953	1719	1859	5953A	B					
5953	1814	1857	5953A	B		184145	W108.1			5954	1904	2045	5954A	B					
5954	2001	2044	5954A	B		202901	W134.9			5955	2051	2231	5955A	B					
5955	2148	2230	5955A	B		221618	W161.8												
NIGHTTIME THIR										DESC. NODE									
5943	0121	0208	5945R	A		014237	W033.3			NEMS - SCR - ITPR									
5944	0257	0310	5945R	A		032953	W060.2			-----									
5944	0307	0356	5945R	B						0121	0310	5945R	A						
5945	0444	0500	5945R	B		051710	W087.0			0307	0501	5945R	B						
5945	0507	0543	5946R	B						0507	0649	5946R	B						
5946	0632	0647	5946R	B		070426	W113.8			0654	0830	5947A	B						
5946	0653	0730	5947A	B	1E					0835	1014	5948A	B						
5947	0819	0828	5947A	B	1E	085143	W140.6			1019	1205	5949A	B						
5947	0835	0917	5948A	B						1209	1346	5950A	B						
5948	1006	1013	5948A	B		103859	W167.4			1351	1529	5951A	B						
5948	1019	1105	5949A	B						1534	1714	5952A	B						
5949	1153	1203	5949A	B		122616	E165.8			1719	1859	5953A	B						
5949	1209	1252	5950A	B						1904	2046	5954A	B						
5950	1351	1439	5951A	B		141332	E138.9			2051	2231	5955A	B						
5951	1534	1626	5952A	B		160049	E112.1												
5952	1719	1814	5953A	B		174805	E085.3												
5953	1904	2001	5954A	B		193522	E058.5												
5954	2051	2148	5955A	B		212238	I031.7												
5955						230955	E004.8												

TABLE 2-2 (Continued)
DATA AVAILABILITY ON-OFF TIMES
28 FEBRUARY 1974

THIR										ESMR									
-----										-----									
		11.5 + 6.7		INT	H	THIR	ASC. AND							INT	H				
DATA	ON	OFF	ORBIT	R	GRID	DESC. NODE	TIME	LONG		DATA	ON	OFF	ORBIT	R					
ORBIT	HRMN	HRMN	STDN	S	LALO	HRMNSS	DEG			ORBIT	HRMN	HRMN	STDN	S					
DAYTIME THIR										ASC. NODE									
5956						000334	E171.4			5957	0037	0228	5959R	A					
5957	0123	0212	5959R	A		015051	E144.6			5958	0221	0416	5958R	B					
5958	0310	0359	5958R	B		033807	E117.8			5959	0423	0601	5959R	B					
5959	0457	0546	5959R	B		052524	E091.0			5960	0609	0744	5960A	B					
5960	0645	0734	5960A	B		071240	E064.1			5961	0749	0930	5961A	B					
5961	0832	0821	5961A	B		085957	E037.3			5962	0935	1115	5962A	B					
5962	1019	1108	5962A	B		104713	E010.5			5963	1120	1302	5963A	B					
5963	1207	1255	5963A	B		123430	W016.3			5964	1307	1446	5964A	B					
5964	1354	1443	5964A	B		142146	W043.1			5965	1450	1630	5965A	B					
5965	1541	1629	5965A	B		160902	W070.0			5966	1635	1812	5966A	B					
5966	1728	1811	5966A	B		175619	W096.8			5967	1818	2002	5967A	B					
5967	1916	2001	5967A	B		194335	W123.6			5968	2008	2150	5968A	B					
5968	2103	2149	5968A	B		213052	W150.4												
5969						231808	W177.2												
NIGHTTIME THIR										DESC. NODE									
5956	0037	0123	5959R	A		005711	W022.0			NEMS - SCR - ITPR									
5957	0212	0228	5959R	A		024428	W048.8			0037	0228	5959R	A						
5957	0221	0310	5958R	B						0222	0417	5958R	B						
5958	0359	0416	5958R	B		043144	W075.6			0423	0744	5959R	B						
5958	0423	0457	5959R	B						0609	0744	5960A	B						
5959	0546	0601	5959R	B		061900	W102.4			0749	0930	5961A	B						
5959	0609	0645	5960A	B						0935	1115	5962A	B						
5960	0734	0742	5960A	B		080617	W129.3			1120	1302	5963A	B						
5960	0749	0832	5961A	B						1307	1446	5964A	B						
5961	0921	0929	5961A	B		095333	W156.1			1451	1630	5965A	B						
5961	0935	1019	5962A	B						1635	1813	5966A	B						
5962	1120	1207	5963A	B		114050	E177.1			1817	2003	5967A	B						
5963	1255	1301	5963A	B		132806	E150.3			2007	2151	5968A	B						
5963	1307	1354	5964A	B															
5964	1451	1541	5965A	B		151523	E123.5												
5965	1635	1728	5966A	B		170239	E096.7												
5966	1817	1916	5967A	B		184956	E069.8												
5967	2008	2103	5968A	B		203712	E043.0												
5968						222429	E016.2												
5969	2351	0038	5972R	A		001145	W010.6												

NEMS - SCR - ITPR									

0037	0228	5959R	A						
0222	0417	5958R	B						
0423	0744	5959R	B						
0609	0744	5960A	B						
0749	0930	5961A	B						
0935	1115	5962A	B						
1120	1302	5963A	B						
1307	1446	5964A	B						
1451	1630	5965A	B						
1635	1813	5966A	B						
1817	2003	5967A	B						
2007	2151	5968A	B						

TABLE 2-2 (Continued)
DATA AVAILABILITY ON-OFF TIMES
1 MARCH 1974

THIR						ESMR						
-----						-----						
11.5 + 6.7			INT	H	THIR	ASC. AND				INT	H	
DATA	ON	OFF	ORBIT	D	GRID	DESC.	NODE			ORBIT	D	
ORBIT	HRMN	HRMN	STDN	R	CORR	TIME	LONG			STDN	R	
				S	LALO	HRMNSS	DEG				S	
DAYTIME THIR						ASC. NODE						
5970	0038	0126	5972R	A		010525	E156.0	5970	2351	0146	5972R	A
5971						025241	E129.1	5972	0326	0515	5972R	B
5972	0412	0501	5972R	B		043958	E102.3	5973	0523	0705	5973R	B
5973	0559	0648	5973R	B		062714	E075.5	5974	0710	0846	5974A	B
5974*	0747	0836	5974A	B		081431	E048.7	5975	0851	1032	5975A	B
5975	0934	1023	5975A	B		100147	E021.9	5976	1038	1220	5976A	B
5976	1121	1210	5976A	B		114904	W005.0	5977	1226	1402	5977A	B
5977	1309	1357	5977A	B		133620	W031.8	5978	1407	1546	5978A	B
5978	1456	1544	5978A	B		152337	W058.6	5979	1551	1730	5979A	B
5979	1643	1729	5979A	B		171053	W085.4	5980	1735	1912	5980A	B
5980	1830	1911	5980A	B		185809	W112.2	5981	1919	2103	5981A	B
5981	2018	2102	5981A	B		204526	W139.0	5982	2109	2250	5982A	B
5982	2205	2249	5982R	B		223242	W165.9					
*NO 6.7 DATA												
NIGHTTIME THIR						DESC. NODE						
5970	0126	0145	5972R	A		015902	W037.4	NEMS - SCR - ITPR				
5971	0326	0412	5972R	B		034618	W064.3	2351	0147	5972R	A	
5972	0501	0515	5972R	B		053335	W091.1	0326	0516	5972R	B	
5972	0521	0559	5973R	B				0521	0705	5973R	B	
5973	0648	0703	5973R	B		072051	W117.9	0710	0847	5974A	B	
5973*	0710	0747	5974A	B				0851	1033	5975A	B	
5974*	0836	0845	5974A	B		090807	W144.7	1057	1221	5976A	B	
5974	0851	0934	5975A	B				1226	1402	5977A	B	
5975	1023	1031	5975A	B		105524	W171.5	1407	1546	5978A	B	
5975	1037	1121	5976A	B				1551	1731	5979A	B	
5976	1210	1218	5976A	B		124240	E161.7	1735	1913	5980A	B	
5976	1226	1309	5977A	B				1918	2103	5981A	B	
5977	1407	1456	5978A	B		142957	E134.8	2109	2250	5982A	B	
5978	1551	1643	5979A	B		161713	E108.0					
5979	1735	1830	5980A	B		180430	E081.2					
5980	1919	2018	5981A	B		195146	E054.4					
5981	2109	2205	5982A	B		213903	E027.6					
5982						232619	E000.7					
*NO 6.7 DATA												

TABLE 2-2 (Continued)
DATA AVAILABILITY ON-OFF TIMES
2 MARCH 1974

THIR										ESMR									
-----										-----									
DATA	11.5	+	6.7	INT	H	THIR	ASC. AND			DATA	ON	OFF	INT	H					
ORBIT	HRMN	HRMN	STDN	ORBIT	D	GRID	DESC. NODE			ORBIT	HRMN	HRMN	ORBIT	D					
				+	R	CORR	TIME LONG						+	R					
					S	LALJ	HRMNSS DEG							S					
DAYTIME THIR										ASC. NODE									
5983							001959 E167.3			5985	0230	0427	5986R	A					
5984							020715 E140.5			5986	0424	0619	5986R	B					
5985	0327	0416		5986R	A		035432 E113.7			5987	0625	0759	5987A	B					
5986	0514	0603		5986R	B		054148 E086.9			5988	0804	0947	5988A	B					
5987*	0701	0750		5987R	B		072905 E060.1			5989	0953	1130	5989A	B					
5988	0849	0937		5988A	B		091621 E033.2			5990	1137	1319	5990A	B					
5989	1036	1125		5989A	B		110338 E006.4			5991	1325	1506	5991A	B					
5990	1223	1312		5990A	B		125054 W020.4			5992	1512	1645	5992A	B					
5991	1411	1459		5991A	B		143811 W047.2			5993	1650	1830	5993A	B					
5992	1558	1644		5992A	B		162527 W074.1			5994	1835	2016	5994A	B					
5993	1745	1827		5993A	B		181244 W100.9			5995	2023	2206	5995A	B					
5994	1932	2016		5994A	B		200000 W127.7			5996	2207	0004	5999R	A					
5995	2120	2205		5995A	B		214717 W154.5												
5996	2307	2356		5999R	A		233433 E178.7												
*NJ 6.7 DATA																			
NIGHTTIME THIR										DESC. NODE									
5983							011336 W026.1			NEMS - SCR - ITPR									
5984	0230	0327		5986R	A		030052 W052.9			-----									
5985	0416	0427		5986R	A		044809 W079.7			0230	0427		5986R	A					
5985	0425	0514		5986R	B					0425	0619		5986R	B					
5986	0603	0613		5986R	B		063525 W106.5			0625	0759		5987A	B					
5986*	0625	0701		5987R	B					0804	0947		5988A	B					
5987*	0750	0758		5987R	B		082242 W133.4			0953	1131		5989A	B					
5987	0804	0849		5988A	B					1136	1319		5990A	B					
5988	0937	0946		5988A	B		100958 W160.2			1324	1507		5991A	B					
5988	0953	1036		5989A	B					1512	1646		5992A	B					
5989	1136	1223		5990A	B		115714 E173.0			1650	1831		5993A	B					
5990	1312	1318		5990A	B		134431 E146.2			1835	2017		5994A	B					
5990	1324	1411		5991A	B					2023	2207		5995A	B					
5991	1459	1505		5991A	B		153147 E119.4			2207	0004		5999R	A					
5991	1512	1558		5992A	B														
5992	1650	1745		5993A	B		171904 E092.6												
5993	1835	1932		5994A	B		190620 E065.7												
5994	2023	2120		5995A	B		205337 E038.9												
5995	2208	2307		5989R	A		224053 E012.1												
5996	2356	0002		5999R	A		002810 W014.7												
*NJ 6.7 DATA																			

TABLE 2-2 (Continued)
DATA AVAILABILITY ON-OFF TIMES
3 MARCH 1974

THIR										ESMR									
		11.5 + 6.7		INT	H	THIR	ASC. AND						INT	H					
DATA	ON	OFF	ORBIT	D	GRID	DESC.	TIME	LONG	DATA	ON	OFF	ORBIT	D						
ORBIT	HRMN	HRMN	+ STDN	R	CORR	HRMNSS	DEG		ORBIT	HRMN	HRMN	+ STDN	R						
DAYTIME THIR										ASC. NODE									
5997						012150	E151.9		5998	0152	0350	5998R	B						
5998	0242	0330	5998R	B		030906	E125.0		5999	0356	0531	5999R	B						
5999	0429	0518	5999R	B		045622	E098.2		6000	0539	0715	6000A	B						
6000	0516	0705	6000A	B		064339	E071.4		6001	0720	0901	6001A	B						
6001	0803	0852	6001A	B		083055	E044.6		6002	0906	1051	6002A	B						
6002	0951	1039	6002A	B		101812	E017.8		6003	1058	1234	6003A	B						
6003	1138	1227	6003A	B		120528	W009.1		6004	1239	1419	6004A	B						
6004	1325	1414	6004A	B		135245	W035.9		6005	1424	1601	6005A	B						
6005	1512	1601	6005A	B		154001	W062.7		6006	1608	1746	6006A	B						
6006	1700	1746	6006A	B		172718	W089.5		6007	1751	1929	6007A	B						
6007	1847	1928	6007A	B		191434	W116.3		6008	1935	2117	6008A	B						
6008	2034	2116	6008A	B		210151	W143.2		6009	2123	2305	6009A	B						
6009	2222	2304	6009A	B		224907	W170.0												
NIGHTTIME THIR										DESC. NODE					NEMS - SCR - ITPR				
5997	0153	0242	5998R	B		021526	W041.5		0153	0350	5998R	B							
5998	0330	0349	5998R	B		040243	W068.4		0356	0532	5999R	B							
5998	0356	0429	5999R	B					0537	0715	6000A	B							
5999	0518	0530	5999R	B		054959	W095.2		0720	0902	6001A	B							
5999	0537	0616	6000A	B					0906	1054	6002A	B							
6000	0705	0713	6000A	B		073716	W122.0		1058	1234	6003A	B							
6000	0720	0803	6001A	B					1238	1419	6004A	B							
6001	0852	0900	6001A	B		092432	W148.8		1424	1601	6005A	B							
6001	0906	0951	6002A	B					1608	1747	6006A	B							
6002	1039	1050	6002A	B		111148	W175.6		1751	1930	6007A	B							
6002	1058	1138	6003A	B					1934	2118	6008A	B							
6003	1239	1325	6004A	B		125905	E157.5		2123	2306	6009A	B							
6004	1424	1512	6005A	B		144621	E130.7												
6005	1608	1700	6006A	B		163338	E103.9												
6006	1751	1847	6007A	B		182054	E077.1												
6007	1936	2034	6008A	B		200811	E050.3												
6008	2123	2222	6009A	B		215527	E023.5												
6009						234244	W003.4												

TABLE 2-2 (Continued)
DATA AVAILABILITY ON-OFF TIMES
4 MARCH 1974

THIR										ESMR									
-----										-----									
DATA	11.5	+	6.7	INT	H	THIR	ASC. AND			DATA	ON	OFF	INT	H					
ORBIT	ON	OFF		ORBIT	D	GRID	DESC. NODE			ORBIT	HRMN	HRMN	ORBIT	D					
	HRMN	HRMN	STDN	+	R	CORR	TIME LONG						+	R					
					S	LALO	HRMNSS DEG						STDN	S					
DAYTIME THIR										ASC. NODE									
6010							003624 E163.2			6013	0454	0642	6015A	A					
6011							022340 E136.4			6014	0642	0816	6014A	B					
6012							041057 E109.6			6015	0821	1004	6015A	B					
6013	0531	0620		6015A	A		055813 E082.8			6016	1009	1147	6016A	B					
6014	0718	0807		6014A	B		074530 E055.9			6017	1153	1335	6017A	B					
6015	0905	0954		6015A	B		093246 E029.1			6018	1341	1518	6018A	B					
6016	1053	1141		6016A	B		112003 E002.3			6019	1523	1703	6019A	B					
6017	1240	1329		6017A	B		130719 W024.5			6020	1708	1846	6020A	B					
6018	1427	1516		6018A	B		145435 W051.3			6021	1851	2033	6021A	B					
6019	1614	1701		6019A	B		164152 W078.2			6022	2038	2222	6022A	B					
6020	1802	1845		6020A	B		182908 W105.0												
6021	1949	2026		6021A	B		201625 W131.8												
6022	2136	2216		6022A	B		220341 W158.6												
6023							235058 E174.6												
NIGHTTIME THIR										DESC. NODE									
6010							013000 W030.2			NEMS - SCR - ITPR									
6011							031717 W057.0			-----									
6012	0453	0531		6015A	A		050433 W083.8			0454	0643		6015A	A					
6013	0620	0641		6015A	A		065150 W110.6			0642	0817		6014A	B					
6013	0642	0718		6014A	B					0821	1003		6015A	B					
6014	0807	0815		6014A	B		083906 W137.5			1009	1147		6016A	B					
6014	0821	0905		6015A	B					1152	1336		6017A	B					
6015	0954	1001		6015A	B		102623 W164.3			1341	1519		6018A	B					
6015	1009	1053		6016A	B					1523	1703		6019A	B					
6016	1152	1240		6017A	B		121339 E168.9			1708	1847		6020A	B					
6017	1341	1427		6018A	B		140055 E142.1			1851	2033		6021A	B					
6018	1523	1614		6019A	B		154812 E115.3			2038	2223		6022A	B					
6019	1708	1802		6020A	B		173528 E088.4												
6020	1851	1949		6021A	B		192245 E061.6												
6021	2038	2136		6022A	B		211001 E034.8												
6022							225718 E008.0												
6023							004434 W018.8												

TABLE 2-2 (Continued)
DATA AVAILABILITY ON-OFF TIMES
5 MARCH 1974

THIR						ESMR					
DATA	11.5	6.7	INT	H	THIR	ASC. AND				INT	H
ORBIT	ON	OFF	ORBIT	D	GRID	DESC. NODE				ORBIT	D
	HRMN	HRMN	STDN	R	CORR	TIME LONG				STDN	R
				S	LALO	HRMNSS DEG					S
DAYTIME THIR						ASC. NODE					
6024						013814 E147.8			6026	0339 0404	6028A A
6025	0339	0347	6028A	A		032531 E120.9			6026	0435 0538	6028A A
6026	0445	0534	6028A	A		051247 E094.1			6027	0534 0731	6027A B
6027	0633	0722	6027A	B		070004 E067.3			6028	0737 0917	6028A B
6028	0820	0909	6028A	B		084720 E040.5			6029	0922 1107	6029A B
6029	1007	1056	6029A	B		103437 E013.7			6030	1113 1250	6030A B
6030	1155	1243	6030A	B		122153 W013.2			6031	1255 1438	6031A B
6031	1342	1431	6031A	B		140910 W040.0			6032	1443 1621	6032A B
6032	1529	1618	6032A	B		155626 W066.8			6033	1626 1802	6033A B
6033	1716	1759	6033A	B		174343 W093.6			6034	1808 1945	6034A B
6034	1904	1943	6034A	B		193059 W120.4			6035	1951 2134	6035A B
6035	2051	2132	6035A	B		211815 W147.3			6036	2139 2322	6036A B
6036	2238	2321	6036A	B		230532 W174.1					
NIGHTTIME THIR						DESC. NODE					
6024						023151 W045.7			NEMS - SCR - ITPR		
6025	0347	0445	6028A	A		041907 W072.5			0339 0535	6028A	A
6026	0534	0633	6027A	B		060624 W099.3			0534 0731	6027A	B
6027	0722	0729	6027A	B		075340 W126.1			0736 0917	6028A	B
6027	0737	0820	6028A	B					0922 1108	6029A	B
6028	0909	0915	6028A	B		094057 W152.9			1112 1251	6030A	B
6028	0922	1007	6029A	B					1256 1438	6031A	B
6029	1056	1106	6029A	B		112813 W179.7			1443 1621	6032A	B
6029	1112	1155	6030A	B					1626 1802	6033A	B
6030	1243	1250	6030A	B		131530 E153.4			1808 1945	6034A	B
6030	1256	1342	6031A	B					1950 2134	6035A	B
6031	1443	1529	6032A	B		150246 E126.6			2139 2323	6036A	B
6032	1626	1716	6033A	B		165002 E099.8					
6033	1808	1904	6034A	B		183719 E073.0					
6034	1953	2051	6035A	B		202435 E046.2					
6035	2140	2238	6036A	B		221152 E019.3					
6036						235908 W007.5					

TABLE 2-2 (Continued)
DATA AVAILABILITY ON-OFF TIMES
6 MARCH 1974

THIR										ESMR									
-----										-----									
DATA	11.5	+	6.7	INT	H	THIR	ASC. AND							INT	H				
ORBIT	ON	OFF		ORBIT	D	GRID	DESC. NODE			DATA	ON	OFF		ORBIT	D				
	HRMN	HRMN	STDN	+	R	CORR	TIME LONG			ORBIT	HRMN	HRMN	STDN	+	R				
				S	S	LALO	HRMNSS DEG							S	S				
DAYTIME THIR										ASC. NODE									
6037							005248 E159.1			6040	0442	0639	6042A	A					
6038							024005 E132.3			6041	0639	0834	6041A	B					
6039	0443	0449	6042A	A			042721 E105.5			6042	0839	1018	6042A	B					
6040	0547	0636	6042A	A			061438 E078.7			6043	1023	1203	6043A	B					
6041	0735	0824	6041A	B			080154 E051.8			6044	1209	1350	6044A	B					
6042	0922	1011	6042A	B			094911 E025.0			6045	1356	1535	6045A	B					
6043	1109	1158	6043A	B			113627 W001.8			6046	1539	1718	6046A	B					
6044	1257	1345	6044A	B			132344 W028.6			6047	1724	1901	6047A	B					
6045	1444	1533	6045A	B			151100 W055.4			6048	1906	2049	6048A	B					
6046	1631	1717	6046A	B			165817 W082.3			6049	2053	2238	6049A	B					
6047	1818	1900	6047A	B			184533 W109.1												
6048	2006	2047	6048A	B			203250 W135.9												
6049	2153	2237	6049A	B			222006 W162.7												
NIGHTTIME THIR										DESC. NODE									
6037							014625 W034.3			NEMS - SCR - ITPR									
6038							033341 W061.1			-----									
6039	0449	0547	6042A	A			052058 W087.9			0443	0639	6042A	A						
6040	0638	0735	6041A	B			070814 W114.8			0638	0834	6041A	B						
6041	0824	0832	6041A	B			085531 W141.6			0839	1018	6042A	B						
6041	0839	0922	6042A	B						1023	1203	6043A	B						
6042	1011	1016	6042A	B			104247 W168.4			1208	1351	6044A	B						
6042	1023	1109	6043A	B						1356	1535	6045A	B						
6043	1208	1257	6044A	B			123004 E164.8			1539	1719	6046A	B						
6044	1356	1444	6045A	B			141720 E138.0			1724	1902	6047A	B						
6045	1539	1631	6046A	B			160436 E111.2			1906	2049	6048A	B						
6046	1724	1818	6047A	B			175153 E084.3			2053	2239	6049A	B						
6047	1907	2006	6048A	B			193909 E057.5												
6048	2055	2153	6049A	B			212626 E030.7												
6049	2242	2340	6053R	A			231342 E003.9												

TABLE 2-2 (Continued)
DATA AVAILABILITY ON-OFF TIMES
7 MARCH 1974

THIR							ESMR						
		11.5 + 6.7		INT	H	THIR	ASC. AND				INT	H	
DATA	ON	OFF	ORBIT	D	GRID	DESC. NODE	TIME	LONG	DATA	ON	OFF	ORBIT	D
ORBIT	HRMN	HRMN	STDN	R	CORR	HRMNSS	DEG		ORBIT	HRMN	HRMN	STDN	R
				S	LALO								S
DAYTIME THIR							ASC. NODE						
6050	2340	0029	6053R	A		000723	E170.5		6050	2239	0036	6053R	A
6051						015439	E143.7		6053	0412	0607	6053R	B
6052						034156	E116.8		6054	0612	0743	6054A	B
6053	0502	0551	6053R	B		052912	E090.0		6055	0752	0934	6055A	B
6054	0649	0738	6054A	B		071628	E063.2		6056	0939	1123	6056A	B
6055	0837	0926	6055A	B		090345	E036.4		6057	1128	1308	6057A	B
6056	1024	1113	6056A	B		105101	E009.6		6058	1314	1452	6058A	B
6057	1211	1300	6057A	B		123818	W017.3		6059	1458	1635	6059A	B
6058	1359	1447	6058A	B		142534	W044.1		6060	1641	1816	6060A	B
6059	1556	1634	6059A	B		161251	W070.9		6061	1822	2004	6061A	B
6060	1733	1816	6060A	B		180007	W097.7		6062	2008	2150	6062A	B
6061	1920	2002	6061A	B		194724	W124.5						
6062	2108	2148	6062A	B		213440	W151.4						
6063						232157	W178.2						
NIGHTTIME THIR							DESC. NODE						
6050	0029	0036	6053R	A		010059	W022.9		NEMS - SCR - ITPR				
6051						024815	W049.8		2239	0037		6053R	A
6052	0412	0502	6053R	B		043532	W076.6		0412	0607		6053R	B
6053	0551	0605	6053R	B		062248	W103.4		0612	0743		6054A	B
6053	0612	0649	6054A	B					0752	0934		6055A	B
6054	0738	0746	6054A	B		081005	W130.2		0939	1123		6056A	B
6054	0752	0837	6055A	B					1128	1309		6057A	B
6055	0926	0933	6055A	B		095721	W157.0		1314	1452		6058A	B
6055	0940	1024	6056A	B					1458	1636		6059A	B
6056	1113	1122	6056A	B		114438	E176.2		1641	1818		6060A	B
6056	1128	1211	6057A	B					1822	2004		6061A	B
6057	1300	1308	6057A	B		133154	E149.3		2008	2150		6062A	B
6057	1314	1359	6058A	B									
6058	1458	1546	6059A	B		151911	E122.5						
6059	1641	1733	6060A	B		170627	E095.7						
6060	1822	1920	6061A	B		185343	E068.9						
6061	2009	2108	6062A	B		204100	E042.1						
6062						222816	E015.2						
6063	2355	0042	6066R	A		001533	W011.6						

TABLE 2-2 (Continued)
DATA AVAILABILITY ON-OFF TIMES
8 MARCH 1974

THIR								ESMR					
DATA	11.5	6.7	INT	H	THIR	ASC. AND		DATA	ON	OFF	INT	H	
ORBIT	ON	OFF	ORBIT	D	GRID	DESC. NODE		ORBIT	HRMN	HRMN	ORBIT	D	
	HRMN	HRMN	STDN	R	CORR	TIME LONG					STDN	R	
				S	LALO	HRMNSS DEG						S	
DAYTIME THIR								ASC. NODE					
6064	0042	0131	6066R	A		010913	E155.0	6064	2355	0149	6066R	A	
6065						025630	E128.2	6066	0329	0520	6066R	B	
6066	0417	0506	6066R	B		044346	E101.4	6067	0526	0714	6068A	B	
6067	0604	0653	6068A	B		063103	E074.6	6068	0711	0852	6068A	A	
6068	0751	0840	6068A	A		081819	E047.7	6069	0853	1035	6069A	B	
6069	0939	1027	6069A	B		100536	E020.9	6070	1041	1220	6070A	B	
6070	1126	1215	6070A	B		115252	W005.9	6071	1225	1407	6071A	B	
6071	1313	1402	6071A	B		134008	W032.7	6072	1412	1550	6072A	B	
6072	1501	1549	6072A	B		152725	W059.6	6073	1555	1731	6073A	B	
6073	1648	1729	6073A	B		171441	W086.4	6074	1737	1915	6074A	B	
6074	1835	1914	6074A	B		190158	W113.2	6075	1922	2055	6075A	B	
6075	2022	2107	6075A	B		204914	W140.0	6076	2115	2252	6076A	B	
6076	2210	2250	6076A	B		223631	W166.8						
NIGHTTIME THIR								DESC. NODE					
6064	0131	0148	6066R	A		020249	W038.4	NEMS - SCR - ITPR					
6065	0330	0417	6066R	B		035006	W065.2						
6066*	0506	0519	6066R	B		053722	W092.0	2355	0149	6066R	A		
6066	0529	0604	6068A	B				0330	0520	6066R	B		
6067	0653	0713	6068A	B		072439	W118.9	0527	0715	6068A	B		
6067	0711	0751	6068A	A				0711	0852	6068A	A		
6068	0840	0850	6068A	A		091155	W145.7	0853	1036	6069A	B		
6068	0853	0939	6069A	B				1041	1220	6070A	B		
6069	1027	1034	6069A	B		105912	W172.5	1225	1412	6071A	B		
6069	1041	1126	6070A	B				1412	1551	6072A	B		
6070	1225	1313	6071A	B		124628	E160.7	1555	1732	6073A	B		
6071	1413	1501	6072A	B		143345	E133.9	1736	1916	6074A	B		
6072	1555	1648	6073A	B		162101	E107.1	1921	2056	6075A	B		
6073	1737	1835	6074A	B		180817	E080.2	2115	2252	6076A	B		
6074	1924	2022	6075A	B		195534	E053.4						
6075	2115	2210	6076A	B		214250	E026.6						
6076						233007	W000.2						

* NO 6.7 DATA

TABLE 2-2 (Continued)
DATA AVAILABILITY ON-OFF TIMES
9 MARCH 1974

THIR										ESMR									
-----										-----									
DATA	11.5 + 6.7		INT	H	THIR	ASC. AND		DESC. NODE		DATA	ON OFF		INT	H	DESC. NODE		DATA	ON OFF	
ORBIT	HRMN	HRMN	ORBIT	D	GRID	TIME	LONG	HRMNSS	DEG	ORBIT	HRMN	HRMN	ORBIT	D	TIME	LONG	ORBIT	HRMN	HRMN
			STDN	S	LALO								STDN	S					
DAYTIME THIR										ASC. NODE									
6077						002347	E166.4			6078	0056	0247	6079R	A					
6078	0144	0233	6079R	A		021104	E139.5			6079	0243	0437	6079R	B					
6079	0331	0420	6079R	B		035820	E112.7			6080	0442	0629	6081A	B					
6080	0519	0608	6081A	B		054537	E085.9			6081	0624	0810	6082A	A					
6081	0706	0755	6082A	A		073253	E059.1			6082	0811	0948	6082A	B					
6082	0853	0942	6082A	B		092010	E032.3			6083	0954	1135	6083A	B					
6083	1041	1129	6083A	B		110726	E005.5			6084	1140	1322	6084A	B					
6084	1228	1317	6084A	B		125443	W021.4			6085	1327	1509	6085A	B					
6085	1415	1504	6085A	B		144159	W048.2			6086	1511	1650	6086A	B					
6086	1602	1649	6086A	B		162916	W075.0			6087	1656	1835	6087A	B					
6087	1750	1833	6087A	B		181632	W101.8			6088	1840	2020	6088A	B					
6088	1937	2018	6088A	B		200349	W128.7			6089	2024	2210	6089A	B					
6089	2124	2209	6089A	B		215105	W155.5												
6090						233821	E177.7												
NIGHTTIME THIR										DESC. NODE									
6077	0056	0144	6079R	A		011723	W027.0			NEMS - SCR - ITPR									
6078	0233	0247	6079R	A		030440	W053.9			0056	0247	6079R	A						
6079	0420	0435	6079R	B		045156	W080.7			0242	0437	6079R	B						
6080	0608	0628	6081A	B		063913	W107.5			0442	0630	6081A	B						
6081	0755	0809	6082A	A		082629	W134.3			0625	0811	6082A	A						
6082	0926	1041	6083A	B		101346	W161.1			0811	0948	6082A	B						
6083	1140	1228	6084A	B		120102	E172.1			0953	1135	6083A	B						
6084	1327	1415	6085A	B		134819	E145.2			1140	1323	6084A	B						
6085	1511	1602	6086A	B		153535	E118.4			1327	1507	6085A	B						
6086	1656	1750	6087A	B		172251	E091.6			1511	1651	6086A	B						
6087	1840	1937	6088A	B		191008	E064.8			1656	1835	6087A	B						
6088	2026	2124	6089A	B		205724	E038.0			1840	2020	6088A	B						
6089						224441	E011.1			2024	2211	6089A	B						
6090	0011	0059	6093R	A		003157	W015.7												

TABLE 2-2 (Continued)
DATA AVAILABILITY ON-OFF TIMES
10 MARCH 1974

THIR										ESMR					
-----										-----					
DATA	11.5 + 6.7		INT	H	THIR	ASC. AND				DATA	ON	OFF	INT	H	
ORBIT	HRMN	HRMN	ORBIT	D	GRID	DESC.	NODE	TIME	LONG	ORBIT	HRMN	HRMN	ORBIT	D	
			+	R	CORR								+	R	
			STDN	S	LALO	HRMNSS	DEG						STDN	S	
DAYTIME THIR										ASC. NODE					
6091	0059	0148	6093R	A		012538	E150.9			6091	0010	0205	6093R	A	
6092	0246	0335	6092R	B		031254	E124.1			6092	0158	0354	6092R	B	
6093	0433	0522	6093R	B		050011	E097.3			6093	0359	0537	6093R	B	
6094	0621	0710	6094A	B		064727	E070.4			6094	0543	0719	6094A	B	
6095	0808	0857	6095A	B		083444	E043.6			6095	0723	0842	6095A	B	
6096	0955	1044	6096A	B		102200	E016.8			6096	0915	1055	6096A	B	
6097	1143	1234	6097A	B		120917	W010.0			6097	1101	1237	6097A	B	
6098	1330	1419	6098A	B		135633	W036.8			6098	1242	1422	6098A	B	
6099	1517	1605	6099A	B		154350	W063.7			6099	1427	1606	6099A	B	
6100	1704	1748	6100A	B		173106	W090.5			6100	1611	1749	6100A	B	
6101	1852	1930	6101A	B		191823	W117.3			6101	1755	1931	6101A	B	
6102	2039	2120	6102A	B		210539	W144.1			6102	1938	2121	6102A	B	
6103	2226	2308	6103A	B		225256	W170.9			6103	2127	2310	6103A	B	
NIGHTTIME THIR										DESC. NODE					
6091	0148	0205	6093R	A		021914	W042.5			NEMS - SCR - ITPR					
6091	0158	0246	6092R	B						-----					
6092	0335	0352	6092R	B		040630	W069.3			0011	0205	6093R	A		
6092	0359	0433	6093R	B						0158	0354	6092R	B		
6093	0522	0536	6093R	B		055347	W096.1			0359	0538	6093R	B		
6093	0543	0621	6094A	B						0543	0719	6094A	B		
6094	0723	0808	6095A	B		074103	W123.0			0723	0843	6095A	B		
6095	0857	0908	6095A	B		092820	W149.8			0915	1056	6096A	B		
6095	0915	0955	6096A	B						1101	1237	6097A	B		
6096	1044	1054	6096A	B		111536	W176.6			1242	1423	6098A	B		
6096	1101	1143	6097A	B						1428	1607	6099A	B		
6097	1231	1236	6097A	B		130253	E156.6			1611	1750	6100A	B		
6097	1242	1330	6098A	B						1755	1932	6101A	B		
6098	1428	1517	6099A	B		145009	E129.8			1937	2122	6102A	B		
6099	1611	1704	6100A	B		163726	E103.0			2127	2310	6103A	B		
6100	1755	1852	6101A	B		182442	E076.1								
6101	1940	2039	6102A	B		201158	E049.3								
6102	2128	2226	6103A	B		215915	E022.5								
6103						234631	W004.3								

TABLE 2-2 (Continued)
DATA AVAILABILITY ON-OFF TIMES
11 MARCH 1974

THIR										ESMR									
-----										-----									
DATA	11.5 + 6.7		INT	H	THIR	ASC. AND				DATA			INT	H					
ORBIT	ON	OFF	ORBIT	D	GRID	DESC.	NODE	TIME	LONG	ORBIT	ON	OFF	ORBIT	D	TIME	LONG	DESC.	NODE	
	HRMN	HRMN	STDN	R	CORR	HRMNSS	DEG				HRMN	HRMN	STDN	R					
				S	LALO									S					
DAYTIME THIR										ASC. NODE									
6104						004012	E016.2			6105	0112	0302	6106R	A					
6105	0201	0250	6106R	A		022729	E135.4			6106	0259	0350	6106R	B					
6106	0348	0437	6106R	B		041445	E108.6			6107	0458	0640	6107R	B					
6107	0535	0624	6107R	B		060201	E081.8			6108	0646	0820	6108A	B					
6108	0723	0811	6108A	B		074918	E055.0			6109	0824	1005	6109A	B					
6109	0910	0959	6109A	B		093634	E028.2			6110	1011	1151	6110A	B					
6110	1057	1146	6110A	B		112551	E001.3			6111	1156	1336	6111A	B					
6111	1244	1333	6111A	B		131107	W025.5			6112	1342	1521	6112A	B					
6112	1432	1520	6112A	B		145824	W052.3			6113	1527	1708	6113A	B					
6113	1619	1706	6113A	B		164540	W079.1			6114	1713	1850	6114A	B					
6114	1806	1849	6114A	B		183257	W105.9			6115	1855	2035	6115A	B					
6115	1954	2034	6115A	B		202013	W132.8			6116	2041	2227	6116A	B					
6116	2141	2225	6016A	B		220730	W159.6												
6117						235446	E173.6												
NIGHTTIME THIR										DESC. NODE									
6104	0111	0201	6106R	A		013348	W031.2			0112	0302	6106R	A						
6105	0250	0301	6106R	A		032104	W058.0			0259	0453	6106R	B						
6105	0259	0348	6106R	B						0458	0641	6107R	B						
6106	0437	0451	6106R	B		050821	W084.8			0646	0820	6108A	B						
6106	0458	0535	6107R	B						0824	1005	6109A	B						
6107	0624	0640	6107R	B		065537	W111.6			1010	1151	6110A	B						
6107	0646	0723	6108A	B						1156	1336	6111A	B						
6108	0811	0816	6108A	B		084254	W138.4			1342	1522	6112A	B						
6108	0824	0910	6109A	B						1527	1708	6113A	B						
6109	1010	1057	6110A	B		103010	W165.2			1712	1851	6114A	B						
6110	1156	1244	6111A	B		121727	E167.9			1855	2036	6115A	B						
6111	1341	1432	6112A	B		140443	E141.1			2041	2227	6116A	B						
6112	1527	1619	6113A	B		155200	E114.3												
6113	1712	1806	6114A	B		173916	E087.5												
6114	1855	1954	6115A	B		192632	E060.7												
6115	2042	2141	6116A	B		211349	E033.9												
6116						230105	E007.0												
6117	0042	0115	6122A	A		004822	W019.8												

TABLE 2-2 (Continued)
DATA AVAILABILITY ON-OFF TIMES
12 MARCH 1974

THIR										ESMR				
11.5 + 6.7		INT	H	THIR	ASC. AND							INT	H	
DATA	ON	OFF	ORBIT	D	GRID	DESC. NODE	TIME	LONG		DATA	ON	OFF	ORBIT	D
ORBIT	HRMN	HRMN	STDN	R	CORR		HRMNSS	DEG		ORBIT	HRMN	HRMN	STDN	R
DAYTIME THIR					ASC. NODE									
6118	0115	0204	6122A	A			014203	E146.8		6118	0041	0231	6122A	A
6119							032919	E120.0		6120	0402	0555	6120R	B
6120	0450	0539	6120R	B			051636	E093.2		6121	0601	0735	6121A	B
6121	0637	0726	6121A	B			070352	E066.3		6122	0739	0919	6122A	B
6122	0825	0913	6122A	B			085109	E039.5		6123	0926	1110	6123A	B
6123	1012	1101	6123A	B			103825	E012.7		6124	1116	1252	6124A	B
6124	1159	1248	6124A	B			122541	W014.1		6125	1257	1437	6125A	B
6125	1346	1435	6125A	B			141258	W040.9		6126	1443	1621	6126A	B
6126	1534	1620	6126A	B			160014	W067.8		6127	1627	1804	6127A	B
6127	1721	1803	6127A	B			174731	W094.6		6128	1809	1949	6128A	B
6128	1908	1948	6128A	B			193447	W121.4		6129	1955	2137	6129A	B
6129	2056	2135	6129A	B			212204	W148.2						
6130							230920	W175.0						
NIGHTTIME THIR					DESC. NODE					NEMS - SCR - ITPR				
6118	0204	0238	6122A	A			023538	W046.6		0042	0231		6122A	A
6119	0401	0450	6120R	B			042255	W073.4		0401	0555		6120R	B
6120	0539	0553	6120R	B			061011	W100.2		0601	0734		6121A	B
6120	0601	0637	6121A	B						0739	0920		6122A	B
6121	0726	0732	6121A	B			075728	W127.1		0925	1111		6123A	B
6121	0739	0825	6122A	B						1116	1253		6124A	B
6122	0925	1012	6123A	B			094444	W153.9		1257	1438		6125A	B
6123	1101	1107	6123A	B			113201	E179.3		1443	1622		6126A	B
6123	1116	1159	6124A	B						1626	1805		6127A	B
6124*	1303	1346	6125A	B			131917	E152.5		1809	1950		6128A	B
6125	1443	1534	6126A	B			150634	E125.7		1954	2138		6129A	B
6126	1627	1721	6127A	B			165350	E098.8						
6127	1810	1908	6128A	B			184106	E072.0						
6128	1957	2056	6129A	B			202823	E045.2						
6129							221539	E018.4						
6130							000256	W008.4						
*DIFFERENT 6.7 TIME														
6124	1257	1346	6125A	B										

NEMS - SCR - ITPR									
0042	0231	6122A	A						
0401	0555	6120R	B						
0601	0734	6121A	B						
0739	0920	6122A	B						
0925	1111	6123A	B						
1116	1253	6124A	B						
1257	1438	6125A	B						
1443	1622	6126A	B						
1626	1805	6127A	B						
1809	1950	6128A	B						
1954	2138	6129A	B						

TABLE 2-2 (Continued)
DATA AVAILABILITY ON-OFF TIMES
13 MARCH 1974

THIR										ESMR									
-----										-----									
		11.5 + 6.7		INT	H	THIR	ASC. AND							INT	H				
DATA	ON	OFF	ORBIT	D	GRID	DESC.	TIME	LONG		DATA	ON	OFF	ORBIT	D					
ORBIT	HRMN	HRMN	STDN	R	CORR	HRMNSS	DEG			ORBIT	HRMN	HRMN	STDN	R	S				
DAYTIME THIR										ASC. NODE									
6131						005637	E158.2			6132	0128	0317	6133R	A					
6132	0217	0306	6133R	A		024353	E131.3			6133	0316	0509	6133R	B					
6133	0405	0454	6133R	B		043110	E104.5			6134	0514	0656	6134R	B					
6134	0552	0641	6134R	B		061826	E077.7			6135	0702	0836	6135A	B					
6135	0739	0828	6135A	B		080543	E050.9			6136	0841	1021	6136A	B					
6136	0927	1015	6136A	B		095259	E024.1			6137	1027	1207	6137A	B					
6137	1114	1203	6137A	B		114016	W002.8			6138	1212	1355	6138A	B					
6138	1301	1350	6138A	B		132732	W029.6			6139	1400	1540	6139A	B					
6139	1448	1537	6139A	B		151449	W056.4			6140	1544	1720	6140A	B					
6140	1636	1719	6140A	B		170205	W083.2			6141	1726	1905	6141A	B					
6141	1823	1904	6141A	B		184921	W110.0			6142	1910	2053	6142A	B					
6142	2010	2052	6142A	B		203638	W136.9			6143	2059	2242	6143A	B					
6143	2158	2241	6143A	B		222354	W163.7												
NIGHTTIME THIR										DESC. NODE									
6131	0127	0217	6133R	A		015012	W035.3			NEMS - SCR - ITPR									
6132	0306	0315	6133R	A		033729	W062.1			-----									
6132	0315	0405	6133R	B						0128	0317	6133R	A						
6133	0454	0507	6133R	B		052445	W088.9			0315	0509	6133R	B						
6133	0514	0552	6134R	B						0514	0657	6134R	B						
6134	0641	0655	6134R	B		071202	W115.7			0702	0836	6135A	B						
6134	0702	0739	6135A	B						0841	1022	6136A	B						
6135	0828	0835	6135A	B						1026	1207	6137A	B						
6135	0841	0927	6136A	B		085918	W142.5			1212	1355	6138A	B						
6136	1026	1114	6137A	B						1400	1539	6139A	B						
6137	1212	1301	6138A	B		104635	W169.3			1544	1721	6140A	B						
6138	1400	1448	6139A	B		123351	E163.8			1726	1906	6141A	B						
6139	1544	1636	6140A	B		142108	E137.0			1910	2054	6142A	B						
6140	1726	1823	6141A	B		160824	E110.2			2059	2243	6143A	B						
6141	1912	2010	6142A	B		175540	E083.4												
6142	2059	2158	6143A	B		194257	E056.6												
6143						213013	E029.7												
						231730	E002.9												

TABLE 2-2 (Continued)
DATA AVAILABILITY ON-OFF TIMES
14 MARCH 1974

THIR										ESMR									
11.5 + 6.7			INT	H	THIR	ASC. AND							INT	H					
DATA	ON	OFF	ORBIT	D	GRID	DESC.	NODE	TIME	LONG				ORBIT	D					
ORBIT	HRMN	HRMN	+	R	CORR			HRMNSS	DEG				STDN	R					
			STDN	S	LALO									S					
DAYTIME THIR										ASC. NODE									
6144						001111	E169.5			6145	0043	0235	6147R	A					
6145	0132	0221	6147R	A		015827	E142.7			6146	0230	0424	6146R	B					
6146	0319	0408	6146R	B		034544	E115.9			6147	0430	0610	6147R	B					
6147	0507	0555	6147R	B		053300	E089.1			6148	0615	0751	6148A	B					
6148	0654	0743	6148A	B		072017	E062.2			6149	0757	0936	6149A	B					
6149	0841	0930	6149A	B		090733	E035.4			6150	0942	1127	6150A	B					
6150	1029	1117	6150A	B		105450	E008.6			5151	1132	1310	6151A	B					
6151	1216	1305	6151A	B		124206	W018.2			6152	1314	1456	6152A	B					
6152	1403	1452	6152A	B		142923	W045.1			6153	1502	1639	6153A	B					
6153	1550	1637	6153A	B		161639	W071.9			6154	1643	1817	6154A	B					
6154	1738	1818	6154A	B		180356	W098.7			6155	1825	2005	6155A	B					
6155	1925	2006	6155A	B		195112	W125.5			6156	2013	2154	6156A	B					
6156	2112	2153	6156A	B		213829	W152.3												
6157						232545	W179.1												
NIGHTTIME THIR										DESC. NODE					NEMS - SCR - ITPR				
6144	0042	0132	6147R	A		010446	W023.9			0043	0235	6147R	A						
6145	0221	0234	6147R	A		025203	W050.7			0230	0424	6146R	B						
6145	0230	0319	6146R	B						0430	0610	6147R	B						
6146	0408	0422	6146R	B		043919	W077.5			0615	0751	6148A	B						
6146	0430	0507	6147R	B						0757	0937	6149A	B						
6147	0555	0605	6147R	B		062636	W104.4			0942	1127	6150A	B						
6147	0615	0654	6148A	B						1132	1310	6151A	B						
6148	0743	0750	6148A	B		081352	W131.2			1315	1457	6152A	B						
6148	0757	0841	6149A	B						1502	1639	6153A	B						
6149	0930	0935	6149A	B		100109	W158.0			1636	1820	6154A	B						
6149	0942	1029	6150A	B						1824	2008	6155A	B						
6150	1117	1126	6150A	B		114825	E175.2			2012	2154	6156A	B						
6150	1132	1216	6151A	B															
6151	1315	1403	6152A	B		133542	E148.4												
6152	1502	1550	6153A	B		152258	E121.6												
5153	1644	1738	6154A	B		171014	E094.7												
6154	1826	1925	6155A	B		185731	E067.9												
5155	2014	2112	6156A	B		204447	E041.1												
6156						223204	E014.3												
6157	0011	0047	6160R	B		001920	W012.5												

TABLE 2-2 (Continued)
DATA AVAILABILITY ON-OFF TIMES
15 MARCH 1974

THIR										ESMR				
11.5 + 6.7		INT	H	THIR	ASC. AND						INT	H		
DATA	ON	OFF	ORBIT	D	GRID	DESC.	NODE				ORBIT	D		
ORBIT	HRMN	HRMN	STDN	R	CORR	TIME	LONG				STDN	R		
				S	LALO	HRMNSS	DEG					S		
DAYTIME THIR					ASC. NODE									
6158	0047	0136	6160R	B		011301	E154.1			6158	0011	0209	6160R	B
6159	0234	0323	6159R	A		030018	E127.2			6159	0143	0341	6159R	A
6160	0421	0510	6160R	A		044734	E100.4			6160	0348	0524	6160R	A
6161	0609	0657	6161R	B		063451	E073.6			6161	0534	0711	6161R	B
6162	0756	0845	6162A	B		082207	E046.8			6162	0717	0853	6162A	B
6163	0943	1032	6163A	B		100924	E020.0			6163	0857	1039	6163A	B
6164	1130	1219	6164A	B		115640	W006.9			6164	1045	1223	6164A	B
6165	1318	1407	6165A	B		134357	W033.7			6165	1228	1410	6165A	B
6166	1505	1554	6166A	B		153113	W060.5			6166	1416	1556	6166A	B
6167	1652	1738	6167A	B		171830	W087.3			6167	1601	1740	6167A	B
6168	1840	1919	6168A	B		190546	W114.1			6168	1745	1920	6168A	B
6169	2027	2111	6169A	B		205303	W141.0			6169	1926	2112	6169A	B
6170	2214	2255	6170A	B		224019	W167.8			6170	2117	2254	6170A	B
NIGHTTIME THIR					DESC. NODE					NEMS - SCR - ITPR				
6158	0136	0209	6160R	B		020637	W039.4			0011	0209	6160R	B	
6158	0144	0234	6159R	A						0144	0342	6159R	A	
6159	0323	0341	6159R	A		035353	W066.2			0348	0524	6160R	A	
6159	0348	0421	6160R	A						0534	0712	6161R	B	
6160	0510	0523	6160R	A		054110	W093.0			0717	0853	6162A	B	
6160	0535	0609	6161R	B						0857	1040	6163A	B	
6161	0647	0712	6161R	B		072826	W119.8			1045	1223	6164A	B	
6161	0717	0756	6162A	B						1228	1411	6165A	B	
6162	0845	0851	6162A	B		091543	W146.6			1416	1556	6166A	B	
6162	0857	0943	6163A	B						1601	1740	6167A	B	
6163	1032	1037	6163A	B		110259	W173.4			1744	1921	6168A	B	
6163	1045	1130	6164A	B						1926	2112	6169A	B	
6164	1228	1318	6165A	B		125015	E159.7			2117	2254	6170A	B	
6165	1416	1550	6166A	B		143732	E132.9							
6166	1601	1652	6167A	B		162448	E106.1							
6167	1745	1840	6168A	B		181205	E079.3							
6168	1928	2027	6169A	B		195921	E052.5							
6169	2117	2214	6170A	B		214638	E025.6							
6170						233354	W001.2							

TABLE 2-2 (Continued)
DATA AVAILABILITY ON-OFF TIMES
16 MARCH 1974

THIR										ESMR									
-----										-----									
11.5 + 6.7		INT	H	THIR	ASC. AND							INT	H						
DATA	ON	OFF	ORBIT	D	GRID	DESC.	NODE				DATA	ON	OFF	ORBIT	D				
ORBIT	HRMN	HRMN	+	R	CORR	TIME	LONG				ORBIT	HRMN	HRMN	+	R				
			STDN	S	LALO	HRMNSS	DEG							STDN	S				
DAYTIME THIR										ASC. NODE									
6171						002736	E165.4				6172	0058	0250	6173R	B				
6172	0149	0238	6173R	B		021452	E138.6				6173	0247	0440	6173R	A				
6173	0336	0425	6173R	A		040209	E111.8				6174	0449	0622	6174R	B				
6174	0523	0612	6174R	B		054925	E085.0				6175	0632	0809	6175A	B				
6175	0711	0759	6175A	B		073641	E058.1				6176	0814	0955	6176A	B				
6176	0858	0947	6176A	B		092358	E031.3				6177	1001	1140	6177A	B				
6177	1045	1134	6177A	B		111114	E004.5				6178	1146	1325	6178A	B				
6178	1232	1321	6178A	B		125831	W022.3				6179	1331	1511	6179A	B				
6179	1420	1509	6179A	B		144547	W049.1				6180	1515	1653	6180A	B				
6180	1607	1652	6180A	B		163304	W076.0				6181	1658	1838	6181A	B				
6181	1754	1836	6181A	B		182020	W102.8				6182	1842	2021	6182A	B				
6182	1942	2021	6182A	B		200737	W129.6				6183	2027	2210	6183A	B				
6183	2129	2209	6183A	B		215453	W156.4												
6184						234210	E176.8												
NIGHTTIME THIR										DESC. NODE					NEMS - SCR - ITPR				

6171	0058	0149	6173R	B		012111	W028.0				0058	0251	6173R	B					
6172	0238	0250	6173R	B		030827	W054.8				0247	0440	6173R	A					
6172	0247	0336	6173R	A								0449	0622	6174R	B				
6173	0425	0439	6173R	A		045544	W081.6				0632	0809	6175A	B					
6173	0449	0523	6174R	B								0814	0956	6176A	B				
6174	0612	0625	6174R	B		064300	W108.4				1001	1142	6177A	B					
6174	0632	0711	6175A	B								1146	1326	6178A	B				
6175	0759	0808	6175A	B		083017	W135.3				1331	1511	6179A	B					
6175	0814	0858	6176A	B								1515	1654	6180A	B				
6176	0947	0955	6176A	B		101733	W162.1				1658	1838	6181A	B					
6176	1001	1045	6176A	B								1842	2023	6182A	B				
6177	1134	1140	6177A	B		120449	E171.1				2027	2210	6183A	B					
6177	1146	1232	6178A	B															
6178	1331	1420	6179A	B		135206	E144.3												
6179	1515	1607	6180A	B		153922	E117.5												
6180	1658	1754	6181A	B		172639	E090.7												
6181	1843	1942	6182A	B		191355	E063.8												
6182	2030	2129	6183A	B		210112	E037.0												
6183						224828	E010.2												
6184	0013	0103	6187R	B		003545	W016.6												

TABLE 2-2 (Continued)
DATA AVAILABILITY ON-OFF TIMES
17 MARCH 1974

THIR							ESMR					
11.5 + 6.7		INT	H	THIR	ASC. AND				INT	H		
DATA	ON	OFF	ORBIT	D	GRID	DESC. NODE			ORBIT	D		
ORBIT	HRMN	HRMN	+ STDN	R	CORR	TIME LONG			+ STDN	R		
				S	LALO	HRMNSS DEG				S		
DAYTIME THIR							ASC. NODE					
6185	0103	0152	6187R	B		012926 E150.0	6185	0013	0207	6187R	B	
6186	0251	0340	6186R	A		031643 E123.1	6186	0201	0356	6186R	A	
6187	0438	0527	6187R	A		050359 E096.3	6187	0402	0540	6187R	A	
6188	0625	0714	6188A	B		065116 E069.5	6188	0550	0723	6188A	B	
6189	0813	0901	6189A	B		083832 E042.7	6189	0727	0910	6189A	B	
6190	1000	1049	6190A	B		102549 E015.9	6190	0915	1057	6190A	B	
6191	1147	1236	6191A	B		121305 W011.0	6191	1104	1240	6191A	B	
6192	1334	1423	6192A	B		140021 W037.8	6192	1246	1426	6192A	B	
6193	1522	1605	6193A	B		154738 W064.6	6193	1431	1609	6193A	B	
6194	1709	1751	6194A	B		173454 W091.4	6194	1614	1753	6194A	B	
6195	1856	1934	6195A	B		192211 W118.2	6195	1758	1936	6195A	B	
6196	2044	2123	6196A	B		210927 W145.1	6196	1942	2125	6196A	B	
6197	2231	2312	6197A	B		225644 W171.9	6197	2130	2312	6197A	B	
NIGHTTIME THIR							DESC. NODE				NEMS - SCR - ITPR	
6185	0152	0207	6187R	B		022301 W043.4		0014	0208	6187R	B	
6185	0201	0251	6186R	A				0200	0357	6186R	A	
6186	0340	0355	6186R	A		041018 W070.3		0403	0541	6187R	A	
6186	0403	0438	6187R	A				0550	0723	6188A	B	
6187	0527	0539	6187R	A		055734 W097.1		0727	0910	6189A	B	
6187	0550	0625	6188A	B				0914	1058	6190A	B	
6188	0714	0721	6188A	B		074451 W123.9		1104	1242	6191A	B	
6188	0727	0813	6189A	B				1246	1426	6192A	B	
6189	0901	0908	6189A	B		093207 W150.7		1431	1610	6193A	B	
6189	0915	1000	6190A	B				1614	1754	6194A	B	
6190	1049	1056	6190A	B		111923 W177.6		1758	1936	6195A	B	
6190	1104	1147	6191A	B				1940	2125	6196A	B	
6191	1246	1334	6192A	B		130640 E155.6		2130	2313	6197A	B	
6192	1431	1522	6193A	B		145356 E128.8						
6193	1614	1709	6194A	B		164113 E102.0						
6194	1758	1856	6195A	B		182829 E075.2						
6195	1945	2044	6196A	B		201546 E048.4						
6196	2132	2231	6197A	B		220302 E021.5						
6197						235019 W005.3						

TABLE 2-2 (Continued)
DATA AVAILABILITY ON-OFF TIMES
18 MARCH 1974

THIR									ESMR					
DATA	11.5 + 6.7		INT	H	THIR	ASC. AND			DATA	ON	OFF	INT	H	
ORBIT	ON	OFF	ORBIT	D	GRID	DESC.	TIME	LONG	ORBIT	HRMN	HRMN	ORBIT	D	R
	HRMN	HRMN	STDN	S	LALO	HRMNSS	DEG					STDN	S	
DAYTIME THIR									ASC. NODE					
6198						004400	E161.3		6199	0115	0306	6200R	B	
6199	0205	0254	6200R	B		023117	E134.5		6200	0303	0455	6200R	A	
6200	0353	0442	6200R	A		041833	E107.7		6201	0505	0642	6201R	B	
6201	0540	0629	6201R	B		060550	E080.9		6202	0648	0824	6202A	B	
6202	0727	0816	6202A	B		075306	E054.0		6203	0829	1012	6203A	B	
6203	0915	1003	6203A	B		094023	E027.2		6204	1017	1154	6204A	B	
6204	1102	1151	6204A	B		112739	E000.4		6205	1200	1343	6205A	B	
6205	1249	1338	6205A	B		131456	W026.4		6206	1349	1526	6206A	B	
6206	1436	1525	6206A	B		150212	W053.2		6207	1531	1710	6207A	B	
6207	1624	1708	6207A	B		164929	W080.1		6208	1715	1854	6208A	B	
6208	1811	1852	6208A	B		183645	W106.9		6209	1859	2040	6209A	B	
6209	1958	2039	6209A	B		202401	W133.7		6210	2045	2230	6210A	B	
6210	2146	2229	6210A	B		221118	W160.5							
6211						235834	E172.7							
NIGHTTIME THIR									DESC. NODE					
6198	0115	0205	6200R	B		013735	W032.1		NEMS - SCR - ITPR					
6199	0254	0305	6200R	B		032452	W058.9		0115	0306	6200R	B		
6199	0303	0353	6200R	A					0303	0456	6200R	A		
6200	0442	0455	6200R	A		051208	W085.7		0505	0643	6201R	B		
6200	0505	0540	6201R	B					0648	0824	6202A	B		
6201	0629	0642	6201R	B		065924	W112.6		0829	1012	6203A	B		
6201	0648	0727	6202A	B					1017	1154	6204A	B		
6202	0816	0823	6202A	B		084641	W139.4		1159	1343	6205A	B		
6202	0829	0915	6203A	B					1348	1527	6206A	B		
6203	1003	1010	6203A	B		103357	W166.2		1531	1711	6207A	B		
6203	1017	1102	6204A	B					1715	1854	6208A	B		
6204	1159	1249	6205A	B		122114	E167.0		1859	2040	6209A	B		
6205	1349	1436	6206A	B		140830	E140.2		2045	2230	6210A	B		
6206	1532	1624	6207A	B		155547	E113.4							
6207	1715	1811	6208A	B		174303	E086.6							
6208	1900	1958	6209A	B		193020	E059.7							
6209	2047	2146	6210A	B		211736	E032.9							
6210						230453	E006.1							
6211	0030	0120	6214R	B		005210	W020.7							

TABLE 2-2 (Continued)
DATA AVAILABILITY ON-OFF TIMES
19 MARCH 1974

THIR										ESMR									
11.5 + 6.7				INT	H	THIR	ASC. AND					INT	H						
DATA	ON	OFF		ORBIT	D	GRID	DESC.	NODE				ORBIT	D						
ORBIT	HRMN	HRMN	STDN		R	CORR	TIME	LONG					R						
					S	LALO	HRMNSS	DEG				STDN	S						
DAYTIME THIR										ASC. NODE									
6212	0120	0209	6214R	B			014551	E145.8				6212	0030	0224	6214R	B			
6213	0307	0356	6213R	A			033307	E119.0				6213	0213	0412	6213R	A			
6214	0455	0544	6214R	A			052024	E092.2				6214	0413	0555	6214R	A			
6215	0642	0731	6215A	B			070740	E065.4				6215	0607	0739	6215A	B			
6216	0829	0918	6216A	B			085457	E038.6				6216	0743	0925	6216A	B			
6217	1017	1105	6217A	B			104213	E011.7				6217	0930	1115	6217A	B			
6218	1204	1253	6218A	B			122930	W015.1				6218	1120	1256	6218A	B			
6219	1351	1440	6219A	B			141646	W041.9				6219	1301	1442	6219A	B			
6220	1538	1619	6220A	B			160403	W068.7				6220	1448	1625	6220A	B			
6221	1726	1806	6221A	B			175119	W095.5				6221	1630	1808	6221A	B			
6222	1913	1954	6222A	B			193836	W122.4				6222	1813	1955	6222A	B			
6223	2100	2140	6223A	B			212552	W149.2				6223	2001	2141	6223A	B			
6224							231309	W176.0											
NIGHTTIME THIR										DESC. NODE									
6212	0209	0223	6214R	B			023926	W047.6				0030	0224	6214R	B				
6212	0218	0307	6213R	A								0218	0412	6213R	A				
6213	0356	0411	6213R	A			042642	W074.4				0418	0556	6214R	A				
6213	0418	0455	6214R	A								0607	0739	6215A	B				
6214	0544	0555	6214R	A			061358	W101.2				0743	0925	6216A	B				
6214	0607	0642	6215A	B								0930	1115	6217A	B				
6215	0731	0737	6215A	B			080115	W128.0				1120	1257	6218A	B				
6215	0743	0829	6216A	B								1301	1443	6219A	B				
6216	0918	0923	6216A	B			094831	W154.8				1448	1625	6220A	B				
6216	0930	1017	6217A	B								1630	1808	6221A	B				
6217	1105	1114	6217A	B			113548	E178.4				1813	1956	6222A	B				
6217	1120	1204	6218A	B								2001	2142	6223A	B				
6218	1301	1351	6219A	B			132304	E151.5											
6219	1448	1538	6220A	B			151021	E124.7											
6220	1630	1726	6221A	B			165737	E097.9											
6221	1815	1913	6222A	B			184454	E071.1											
6222	2002	2100	6223A	B			203210	E044.3											
6223							221927	E017.4											
6224							000643	W009.4											

TABLE 2-2 (Continued)
DATA AVAILABILITY ON-OFF TIMES
20 MARCH 1974

THIR										ESMR				
-----										-----				
11.5 + 6.7		INT	H	THIR	ASC. AND						INT	H		
DATA	ON	OFF	ORBIT	D	GRID	DESC.	NODE				ORBIT	D		
ORBIT	HRMN	HRMN	STDN	R	CORR	TIME	LONG			DATA	ON	OFF		
				S	LALO	HRMNSS	DEG			ORBIT	HRMN	HRMN		
												STDN	R	
													S	
DAYTIME THIR					ASC. NODE									
6225						010025	E157.2			6226	0132	0320	6227R	B
6226	0222	0311	6227R	B		024741	E130.4			6227	0319	0511	6227R	A
6227	0409	0458	6227R	A		043458	E103.6			6228	0520	0657	6228R	B
6228	0557	0645	6228R	B		062214	E076.7			6229	0703	0843	6229A	B
6229	0744	0833	6229A	B		080931	E049.9			6230	0847	1028	6230A	B
6230	0931	1020	6230A	B		095647	E023.1			6231	1033	1210	6231A	B
6231	1119	1207	6231A	B		114404	W003.7			6232	1216	1359	6232A	B
6232	1306	1355	6232A	B		133120	W030.5			6233	1404	1545	6233A	B
6233	1453	1542	6233A	B		151837	W057.4			6234	1550	1726	6234A	B
6234	1640	1724	6234A	B		170553	W084.2			6235	1731	1910	6235A	B
6235	1828	1909	6235A	B		185310	W111.0			6236	1915	2056	6236A	B
6236	2015	2055	6236A	B		204026	W137.8			6237	2101	2245	6237A	B
6237	2202	2244	6237A	B		222743	W164.6							
NIGHTTIME THIR					DESC. NODE					NEMS - SCR - ITPR				

6225	0131	0222	6227R	B		015400	W036.2			0131	0320	6227R	B	
6226	0311	0320	6227R	B		034116	W063.0			0320	0510	6227R	A	
6226	0319	0409	6227R	A						0520	0658	6228R	B	
6227	0458	0509	6227R	A		052832	W089.8			0702	0843	6229R	B	
6227	0520	0557	6228R	B						0847	1028	6230A	B	
6228	0645	0657	6228R	B		071549	W116.7			1032	1211	6231A	B	
6228	0704	0744	6229A	B						1215	1359	6232A	B	
6229	0833	0841	6229A	B		090305	W143.5			1404	1546	6233A	B	
6229	0847	0931	6230A	B						1550	1727	6234A	B	
6230	1020	1026	6230A	B		105022	W170.3			1732	1911	6235A	B	
6230	1033	1119	6231A	B						1915	2057	6236A	B	
6231	1215	1306	6232A	B		123738	E162.9			2102	2246	6237A	B	
6232	1404	1453	6233A	B		142455	E136.1							
6233	1550	1640	6234A	B		161211	E109.3							
6234	1732	1828	6235A	B		175928	E082.4							
6235	1916	2015	6236A	B		194644	E055.6							
6236	2104	2202	6237A	B		213401	E028.8							
6237						232117	E002.0							

TABLE 2-2 (Continued)
DATA AVAILABILITY ON-OFF TIMES
21 MARCH 1974

THIR										ESMR									
DATA		11.5 + 6.7		INT	H	THIR	ASC. AND			DATA			INT	H					
ORBIT	ON	OFF	ORBIT	D	GRID	DESC. NODE	TIME	LONG		ORBIT	ON	OFF	ORBIT	D					
	HRMN	HRMN	STDN	R	CORR		HRMNSS	DEG			HRMN	HRMN	STDN	R					
				S	LALO									S					
DAYTIME THIR										ASC. NODE									
6238						001459	E168.6			6239	0046	0239	6240R	B					
6239	0137	0226	6240R	B		020216	E141.7			6240	0234	0427	6240R	A					
6240	0324	0413	6240R	A		034932	E114.9			6241	0437	0615	6241R	B					
6241	0511	0600	6241R	B		053649	E088.1			6242	0621	0753	6242A	B					
6242	0659	0747	6242A	B		072405	E061.3			6243	0758	0940	6243A	B					
6243	0846	0935	6243A	B		091121	E034.5			6244	0946	1125	6244A	B					
6244	1033	1122	6244A	B		105838	E007.6			6245	1132	1314	6245A	B					
6245	1220	1309	6245A	B		124554	W019.2			6246	1319	1455	6246A	B					
6246	1408	1457	6246A	B		143311	W046.0			6247	1503	1641	6247A	B					
6247	1555	1640	6247A	B		162027	W072.8			6248	1646	1826	6248A	B					
6248	1742	1826	6248A	B		180744	W099.6			6249	1833	2009	6249A	B					
6249	1930	2008	6249A	B		195500	W126.5			6250	2015	2200	6250A	B					
6250	2117	2159	6250A	B		214217	W153.3												
6251						232933	E179.9												
NIGHTTIME THIR										DESC. NODE					NEMS - SCR - ITPR				
6238	0047	0137	6240R	B		010833	W024.8			0046	0239	6240R	B						
6239	0226	0238	6240R	B		025550	W051.7			0234	0427	6240R	A						
6239	0234	0324	6240R	A						0437	0615	6241R	B						
6240	0413	0426	6240R	A		044306	W078.5			0621	0754	6242A	B						
6240	0437	0511	6241R	B						0758	0942	6243A	B						
6241	0600	0614	6241R	B		063023	W105.3			0946	1126	6244A	B						
6241	0621	0659	6242A	B						1132	1314	6245A	B						
6242	0758	0846	6243A	B		081739	W132.1			1319	1454	6246A	B						
6243	0947	1033	6244A	B		100456	W158.9			1502	1641	6247A	B						
6244	1132	1220	6245A	B		115212	E174.2			1646	1827	6248A	B						
6245	1319	1408	6246A	B		133929	E147.4			1832	2009	6249A	B						
6246	1503	1555	6247A	B		152645	E120.6			2014	2201	6250A	B						
6247	1646	1742	6248A	B		171402	E093.8												
6248	1833	1930	6249A	B		190118	E067.0												
6249	2018	2117	6250A	B		204835	E040.2												
6250						223551	E013.3												
6251	0001	0051	6254R	B		002307	W013.5												

TABLE 2-2 (Continued)
DATA AVAILABILITY ON-OFF TIMES
22 MARCH 1974

THIR							ESMR						
DATA	11.5	6.7	INT	H	THIR	ASC. AND	DATA	ON	OFF	INT	H		
ORBIT	ON	OFF	ORBIT	D	GRID	DESC. NODE	ORBIT	HRMN	HRMN	ORBIT	D		
	HRMN	HRMN	STDN	R	CORR	TIME LONG				STDN	R		
				S	LALO	HRMNSS DEG					S		
DAYTIME THIR							ASC. NODE						
6252	0051	0140	6254R	B		011650 E153.1	6252	0002	0156	6254R	B		
6253	0239	0328	6253R	A		030406 E126.3	6253	0148	0345	6253R	A		
6254	0426	0515	6254R	A		045123 E099.5	6254	0351	0529	6254R	A		
6255	0613	0702	6255R	B		063839 E072.6	6255	0539	0715	6255R	B		
6256	0801	0849	6256A	B		082556 E045.8	6256	0721	0855	6256A	B		
6257*	0948	1037	6257A	B		101312 E019.0	6257	0900	1045	6257A	B		
6258	1135	1224	6258A	B		120028 W007.8	6258	1050	1230	6258A	B		
6259	1322	1411	6259A	B		134745 W034.6	6259	1234	1414	6259A	B		
6260	1510	1556	6260A	B		153501 W061.5	6260	1420	1557	6260A	B		
6261	1657	1741	6261A	B		172218 W088.3	6261	1602	1743	6261A	B		
6262	1844	1924	6262A	B		190934 W115.1	6262	1747	1925	6262A	B		
6263	2032	2110	6263A	B		205651 W141.9	6263	1931	2111	6263A	B		
6264	2219	2258	6264A	B		224407 W168.7	6264	2117	2300	6264A	B		
*NO 6.7 DATA													
NIGHTTIME THIR							DESC. NODE						
6252	0140	0156	6254R	B		021024 W040.3	NEMS - SCR - ITPR						
6252	0147	0239	6253R	A		035740 W067.1							
6253	0328	0344	6253R	A		054457 W093.9	0002	0156	6254R	B			
6253	0351	0426	6254R	A		073213 W120.8	0148	0345	6253R	A			
6254	0515	0527	6254R	A		091930 W147.6	0351	0529	6254R	A			
6254	0539	0613	6255R	B		110646 W174.4	0539	0716	6255R	B			
6255	0702	0715	6255R	B		125403 E158.8	0721	0855	6256A	B			
6255	0721	0801	6256A	B		144119 E132.0	0900	1046	6257A	B			
6256*	0900	0948	6257A	B		162836 E105.2	1050	1230	6258A	B			
6257*	1037	1044	6257A	B		181552 E078.3	1234	1415	6259A	B			
6257	1050	1135	6258A	B		200308 E051.5	1409	1558	6260A	B			
6258	1234	1322	6259A	B		215025 E024.7	1602	1743	6261A	B			
6259	1419	1510	6260A	B		233741 W002.2	1747	1926	6262A	B			
6260	1602	1657	6261A	B			1931	2112	6263A	B			
6261	1747	1844	6262A	B			2117	2300	6264A	B			
6262	1933	2032	6263A	B									
6263	2120	2219	6264A	B									
6264													
*NO 6.7 DATA													

TABLE 2-2 (Continued)
DATA AVAILABILITY ON-OFF TIMES
23 MARCH 1974

THIR										ESMR									
-----										-----									
DATA	11.5	+	6.7	INT	H	THIR	ASC. AND			DATA	ON	OFF	INT	H					
ORBIT	HRMN	HRMN	STDN	ORBIT	D	GRID	DESC. NODE			ORBIT	HRMN	HRMN	ORBIT	D					
				+	R	CORR	TIME LONG						+	R					
					S	LALO	HRMNSS DEG							S					
DAYTIME THIR										ASC. NODE									
6265							003124 E164.4			6266	0103	0254	6267R	B					
6266	0153	0242	6267R	B			021840 E137.6			6267	0250	0444	6267R	A					
6267	0349	0430	6267R	A			040557 E110.8			6268	0444	0631	6268R	B					
6268	0528	0617	6268R	B			055313 E084.0			6269	0637	0810	6269A	B					
6269	0715	0804	6269A	B			074030 E057.2			6270	0816	0957	6270A	B					
6270	0903	0951	6270A	B			092746 E030.4			6271	1002	1141	6271A	B					
6271	1050	1139	6271A	B			111503 E003.5			6272	1148	1330	6272A	B					
6272	1237	1326	6272A	B			130219 W023.3			6273	1336	1514	6273A	B					
6273	1424	1512	6273A	B			144936 W050.1			6274	1520	1657	6274A	B					
6274	1612	1656	6274A	B			163652 W076.9			6275	1703	1842	6275A	B					
6275	1759	1841	6275A	B			182408 W103.7			6276	1847	2029	6276A	B					
6276	1946	2027	6276A	B			201125 W130.6			6277	2035	2218	6277A	B					
6277	2134	2216	6277A	B			215841 W157.4												
6278							234558 E175.8												
NIGHTTIME THIR										DESC. NODE									
6265	0102	0153	6267R	B			012458 W028.9			6266	0242	0253	6267R	B					
6266	0242	0253	6267R	B			031214 W055.8			6267	0249	0341	6267R	A					
6267	0430	0442	6267R	A			045931 W082.6			6268	0454	0528	6268R	B					
6268	0617	0630	6268R	B			064647 W109.4			6269	0636	0715	6269A	B					
6269	0804	0809	6269A	B			083404 W136.2			6270	0816	0903	6270A	B					
6270	1002	1050	6271A	B			102120 W163.0			6271	1147	1237	6272A	B					
6271	1147	1237	6272A	B			120837 E170.1			6272	1336	1424	6273A	B					
6272	1336	1424	6273A	B			135553 E143.3			6273	1519	1612	6274A	B					
6273	1519	1612	6274A	B			154310 E116.5			6274	1703	1759	6275A	B					
6274	1703	1759	6275A	B			173026 E089.7			6275	1848	1946	6276A	B					
6275	1848	1946	6276A	B			191742 E062.9			6276	2035	2134	6277A	B					
6276	2035	2134	6277A	B			210459 E036.1			6277									
6277							225215 E009.2			6278	0018	0108	6281R	B					
6278	0018	0108	6281R	B			003932 W017.6												

TABLE 2-2 (Continued)
DATA AVAILABILITY ON-OFF TIMES
24 MARCH 1974

THIR										ESMR									
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DATA	11.5 + 6.7		INT	H	THIR	ASC. AND				DATA			INT	H					
ORBIT	ON	OFF	ORBIT	D	GRID	DESC.	NODE	TIME	LONG	ORBIT	ON	OFF	ORBIT	D	TIME	LONG	TIME	LONG	
	HRMN	HRMN	STDN	R	CORR	HRMNSS	DEG				HRMN	HRMN	STDN	R					
				S	LALO									S					
DAYTIME THIR										ASC. NODE									
6279	0108	0157	6281R	B		013314	E149.0			6278	0018	0212	6281R	B					
6280	0255	0344	6280R	A		032031	E122.2			6280	0205	0401	6280R	A					
6281	0443	0531	6281R	B		050747	E095.4			6281	0407	0545	6281R	A					
6282	0630	0719	6282A	B		065504	E068.5			6282	0554	0725	6282A	B					
6283	0817	0906	6283A	B		084220	E041.7			6283	0731	0911	6283A	B					
6284	1005	1053	6284A	B		102937	E014.9			6284	0918	1101	6284A	B					
6285	1152	1241	6285A	B		121653	W011.9			6285	1107	1246	6285A	B					
6286	1339	1428	6286A	B		140410	W038.7			6286	1252	1430	6286A	B					
6287	1526	1612	6287A	B		155126	W065.5			6287	1436	1614	6287A	B					
6288	1714	1756	6288A	B		173843	W092.4			6288	1619	1758	6288A	B					
6289	1901	1938	6289A	B		192559	W119.2			6289	1804	1941	6289A	B					
6290	2048	2127	6290A	B		211316	W146.0			6290	1947	2129	6290A	B					
6291	2236	2316	6291A	B		230032	W172.8			6291	2135	2317	6291A	B					
NIGHTTIME THIR										DESC. NODE									
6279	0157	0211	6281R	B		022648	W044.4			NEMS - SCR - ITPR									
6279	0205	0255	6280R	A		041405	W071.2			0017	0212	6281R	B						
6280	0344	0400	6280R	A		060121	W098.0			0204	0401	6280R	A						
6280	0407	0443	6281R	A		074838	W124.9			0406	0544	6281R	A						
6281	0531	0544	6281R	A		093554	W151.7			0554	0726	6282A	B						
6281	0554	0630	6282A	B		112311	W178.5			0731	0912	6283A	B						
6282	0731	0817	6283A	B		131027	E154.7			0918	1102	6284A	B						
6283	0918	1005	6284A	B		145743	E127.9			1107	1247	6285A	B						
6284	1053	1100	6284A	B		164500	E101.1			1251	1431	6286A	B						
6284	1106	1152	6285A	B		183216	E074.2			1434	1614	6287A	B						
6285	1251	1339	6286A	B		201933	E047.4			1619	1758	6288A	B						
6286	1435	1526	6287A	B		220649	E020.6			1803	1940	6289A	B						
6287	1619	1714	6288A	B		235406	W006.2			1945	2129	6290A	B						
6288	1803	1901	6289A	B						2134	2318	6291A	B						
6289	1950	2048	6290A	B															
6290	2137	2236	6291A	B															
6291																			

TABLE 2-2 (Continued)
DATA AVAILABILITY ON-OFF TIMES
25 MARCH 1974

THIR										ESMR									
-----										-----									
		11.5 + 6.7		INT	H	THIR	ASC. AND							INT	H				
DATA	ON	OFF	ORBIT	D	THIR	DESC.	TIME	LONG		DATA	ON	OFF	ORBIT	D					
ORBIT	HRMN	HRMN	STDN	R	CORR	HRMNSS	DEG			ORBIT	HRMN	HRMN	STDN	R					
				S	LALO									S					
DAYTIME THIR										ASC. NODE									
6292						004748	E160.4			6293	0119	0309	6294R	B					
6293	0210	0259	6294R	B		023505	E133.5			6294	0307	0504	6294R	A					
6294	0357	0446	6294R	A		042221	E106.7			6295	0507	0648	6295R	B					
6295	0545	0633	6295R	B		060938	E079.9			6296	0654	0830	6296A	B					
6296	0732	0821	6296A	B		075654	E053.1			6297	0835	1015	6297A	B					
6297	0919	1008	6297A	B		094411	E026.3			6298	1019	1159	6298A	B					
6298	1106	1155	6298A	B		113127	W000.6			6299	1205	1345	6299A	B					
6299	1254	1343	6299A	B		131844	W027.4			6300	1349	1528	6300A	B					
6300	1441	1527	6300A	B		150600	W054.2			6301	1533	1713	6301A	B					
6301	1628	1712	6301A	B		165317	W081.0			6302	1719	1856	6302A	B					
6302	1816	1854	6302A	B		184033	W107.8			6303	1902	2045	6303A	B					
6303	2003	2043	6303A	B		202750	W134.7			6304	2051	2231	6304A	B					
6304	2150	2230	6304A	B		221506	W161.5												
NIGHTTIME THIR										DESC. NODE									
6292	0118	0210	6294R	B		014122	W033.0			NEMS - SCR - ITPR									
6293	0259	0307	6294R	B		032839	W059.9			0118	0309	6294R	B						
6293	0307	0357	6294R	A						0304	0505	6294R	A						
6294	0446	0503	6294R	A		051555	W086.7			0504	0648	6295R	B						
6294	0503	0545	6295R	B						0654	0830	6296A	B						
6295	0633	0646	6295R	B		070312	W113.5			0835	1015	6297A	B						
6295	0653	0732	6296A	B						1019	1159	6298A	B						
6296	0821	0828	6296A	B		085028	W140.3			1203	1344	6299A	B						
6296	0835	0919	6297A	B						1349	1529	6300A	B						
6297	1019	1106	6298A	B		103745	W167.1			1513	1714	6301A	B						
6298	1203	1254	6299A	B		122501	E166.1			1719	1857	6302A	B						
6299	1349	1441	6300A	B		141217	E139.2			1901	2046	6303A	B						
6300	1533	1628	6301A	B		155934	E112.4			2050	2232	6304A	B						
6301	1719	1816	6302A	B		174650	E085.6												
6302	1904	2003	6303A	B		193407	E058.8												
6303	2052	2150	6304A	B		212123	W032.0												
6304						230840	E005.2												

TABLE 2-2 (Continued)
DATA AVAILABILITY ON-OFF TIMES
26 MARCH 1974

THIR						ESMR					
-----						-----					
DATA	11.5 + 6.7	INT	H	THIR	ASC. AND			INT	H		
ORBIT	ON OFF	ORBIT	D	GRID	DESC. NODE			ORBIT	D		
	HRMN HRMN	STDN	R	CORR	TIME LONG			STDN	R		
			S	LALO	HRMNSS DEG				S		
DAYTIME THIR						ASC. NODE					
6305						000223	E171.7	6306	0034	0227	6308R B
6306	0125 0214	6308R	B			014939	E144.9	6307	0221 0416	6307R	A
6307	0312 0401	6307R	A			033655	E118.1	6308	0423 0601	6308R	A
6308	0459 0548	6308R	A			052412	E091.2	6309	0612 0744	6309A	B
6309	0647 0735	6309A	B			071128	E064.4	6310	0748 0930	6310A	B
6310	0834 0923	6310A	B			085845	E037.6	6311	0936 1115	6311A	B
6311	1021 1110	6311A	B			104601	E010.8	6312	1120 1301	6312A	B
6312	1208 1257	6312A	B			123318	W016.0	6313	1306 1447	6313A	B
6313	1356 1444	6313A	B			142034	W042.9	6314	1452 1630	6314A	B
6314	1543 1629	6314A	B			160751	W069.7	6315	1636 1814	6315A	B
6315	1730 1812	6315A	B			175507	W096.5	6316	1818 1955	6316A	B
6316	1918 1955	6316A	B			194224	W123.3	6317	2002 2146	6317A	B
6317	2105 2143	6317A	B			212940	W150.1				
6318						231657	W177.0				
NIGHTTIME THIR						DESC. NODE					
6305	0034 0125	6308R	B			005556	W021.7	NEMS - SCR - ITPR			
6306	0214 0227	6308R	B			024313	W048.5	0034	0227	6308R	B
6306	0221 0312	6307R	A					0221	0417	6307R	A
6307	0401 0415	6307R	A			043029	W075.3	0423	0601	6308R	A
6307	0422 0459	6308R	A					0612	0744	6309A	B
6308	0548 0600	6308R	A			061746	W102.1	0748	0930	6310A	B
6308	0612 0647	6309A	B					0936	1115	6311A	B
6309	0735 0742	6309A	B			080502	W128.9	1120	1302	6312A	B
6309*	0748 0834	6310A	B					1306	1447	6313A	B
6310**	0923 0928	6310A	B			095218	W155.8	1452	1631	6314A	B
6310	0935 1021	6311A	B					1636	1814	6315A	B
6311	1120 1208	6312A	B			113935	E177.4	1818	1956	6316A	B
6312	1306 1356	6313A	B			132651	E150.6	2001	2147	6317A	B
6313	1452 1543	6314A	B			151408	E123.8				
6314	1635 1730	6315A	B			170124	E097.0				
6315	1819 1918	6316A	B			184841	E070.2				
6316	2006 2105	6317A	B			203557	E043.3				
6317						222314	E016.5				
6318						001030	W010.3				
*DIFFERENT 6.7 TIMES											
6309	0753 0834	6310A	B								
** NO 11.5 DATA											

TABLE 2-2 (Continued)
DATA AVAILABILITY ON-OFF TIMES
27 MARCH 1974

THIR										ESMR				
-----										-----				
11.5 + 6.7		INT	H	THIR	ASC. AND							INT	H	
DATA	ON	OFF	ORBIT	D	GRID	DESC. NODE	TIME	LONG		DATA	ON	OFF	ORBIT	D
ORBIT	HRMN	HRMN	+ STDN	R	CORR		HRMNSS	DEG		ORBIT	HRMN	HRMN	+ STDN	R
DAYTIME THIR					ASC. NODE									
6319							010413	E156.3		6320	0136	0323	6321R	B
6320	0227	0316	6321R	B			025130	E129.5		6321	0325	0520	6321R	A
6321	0414	0503	6321R	A			043846	E102.6		6322	0522	0704	6322R	B
6322	0601	0650	6322R	B			062603	E075.8		6323	0710	0843	6323A	B
6323	0749	0837	6323A	B			081319	E049.0		6324	0848	1030	6324A	B
6324	0936	1025	6324A	B			100035	E022.2		6325	1036	1215	6325A	B
6325	1123	1212	6325A	B			114752	W004.6		6326	1220	1403	6326A	B
6326	1310	1359	6326A	B			133508	W031.5		6327	1408	1546	6327A	B
6327	1458	1545	6327A	B			152225	W058.3		6328	1551	1730	6328A	B
6328	1645	1728	6328A	B			170941	W085.1		6329	1735	1914	6329A	B
6329	1832	1912	6329A	B			185658	W111.9		6330	1919	2103	6330A	B
6330	2020	2102	6330A	B			204414	W138.8		6331	2109	2249	6331A	B
6331	2207	2247	6331A	B			223131	W165.6						
NIGHTTIME THIR					DESC. NODE					NEMS - SCR - ITPR				
6319	0136	0227	6321R	B			015747	W037.1		0135	0324	6321R	B	
6320	0316	0323	6321R	B			034503	W064.0		0324	0521	6321R	A	
6320	0325	0414	6321R	A						0522	0704	6322R	B	
6321	0503	0519	6321R	A			053220	W090.8		0710	0844	6323A	B	
6321	0522	0601	6322R	B						0848	1031	6324A	B	
6322	0650	0703	6322R	B			071936	W117.6		1035	1215	6325A	B	
6322	0709	0749	6323A	B						1220	1403	6326A	B	
6323	0848	0936	6324A	B			090652	W144.4		1408	1547	6327A	B	
6324	1035	1123	6325A	B			105409	W171.2		1551	1727	6328A	B	
6325	1220	1310	6326A	B			124125	E162.0		1735	1914	6329A	B	
6326	1408	1458	6327A	B			142842	E135.1		1919	2104	6330A	B	
6327	1551	1645	6328A	B			161558	E108.3		2108	2249	6331A	B	
6328	1735	1832	6329A	B			180318	E081.5						
6329	1921	2020	6330A	B			195031	E054.7						
6330	2109	2207	6331A	B			213748	E027.9						
6331							232504	E001.0						

TABLE 2-2 (Continued)
DATA AVAILABILITY ON-OFF TIMES
28 MARCH 1974

THIR										ESMR									
-----										-----									
11.5 + 6.7				INT	H	THIR	ASC. AND							INT	H				
DATA	ON	OFF	ORBIT	ORBIT	D	GRID	DESC.	NODE					ORBIT	D					
ORBIT	HRMN	HRMN	STDN	+	R	CORR	TIME	LONG					STDN	R					
				S	LALO		HRMNSS	DEG						S					
DAYTIME THIR										ASC. NODE									
6332							001847	E167.6					6333	0051	0244	6334R	B		
6333	0141	0230	6334R	B			020604	E140.8					6334	0245	0437	6334R	A		
6334	0329	0417	6334R	A			035320	E114.0					6335	0439	0620	6335R	B		
6335	0516	0605	6335R	B			054037	E087.2					6336	0625	0759	6336A	B		
6336	0703	0752	6336A	B			072753	E060.3					6337	0803	0943	6337A	B		
6337	0851	0939	6337A	B			091510	E033.5					6338	0949	1135	6338A	B		
6338	1038	1127	6338A	B			110226	E006.7					6339	1140	1315	6339A	B		
6339	1225	1314	6339A	B			124942	W020.1					6340	1321	1504	6340A	B		
6340	1412	1501	6340A	B			143659	W046.9					6341	1509	1644	6341A	B		
6341	1600	1642	6341A	B			162415	W073.8					6342	1649	1828	6342A	B		
6342	1747	1825	6342A	B			181132	W100.6					6343	1833	2013	6343A	B		
6343	1934	2011	6343A	B			195848	W127.4					6344	2019	2202	6344A	B		
6344	2122	2200	6344A	B			214605	W154.2											
6345							233321	E179.0											
NIGHTTIME THIR										DESC. NODE									
6332	0051	0141	6334R	B			011221	W025.8					0050	0244	6334R	B			
6333	0230	0243	6334R	B			025937	W052.6					0244	0437	6334R	A			
6333	0245	0329	6334R	A									0438	0620	6335R	B			
6334	0417	0434	6334R	A			044653	W079.4					0625	0759	6336A	B			
6334	0438	0516	6335R	B									0803	0943	6337A	B			
6335	0605	0618	6335R	B			063410	W106.2					0948	1135	6338A	B			
6335	0625	0703	6336A	B									1140	1316	6339A	B			
6336	0752	0757	6336A	B			082126	W133.1					1321	1504	6340A	B			
6336	0803	0851	6337A	B									1508	1644	6341A	B			
6337	0948	1038	6338A	B			100843	W159.9					1649	1828	6342A	B			
6338	1127	1133	6338A	B			115559	E173.3					1832	2013	6343A	B			
6338	1140	1225	6339A	B									2019	2202	6344A	B			
6339	1321	1412	6340A	B			134316	E146.5											
6340	1508	1600	6341A	B			153032	E119.7											
6341	1649	1747	6342A	B			171749	E092.9											
6342	1836	1934	6343A	B			190505	E066.0											
6343	2023	2122	6344A	B			205222	E039.2											
6344							223938	E012.4											
6345*	0005	0056	6348R	A			002654	W014.4											
*NO 6.7 DATA																			

*NO 6.7 DATA

TABLE 2-2 (Continued)
DATA AVAILABILITY ON-OFF TIMES
29 MARCH 1974

THIR							ESMR						
-----							-----						
DATA	11.5 + 6.7		INT	H	THIR	ASC. AND	DATA	ON	OFF	INT	H		
ORBIT	ON	OFF	ORBIT	D	GRID	DESC. NODE	ORBIT	HRMN	HRMN	ORBIT	D		
	HRMN	HRMN	STDN	R	CORR	TIME LONG				STDN	R		
				S	LALO	HRMNSS DEG					S		

DAYTIME THIR						ASC. NODE							
6346	0056	0145	6348R	A		012038	E152.1	6346	0006	0200	6348R	A	
6347*	0243	0332	6347R	B		030754	E125.3	6347	0157	0348	6347R	B	
6348	0431	0519	6348R	B		045511	E098.5	6348	0356	0531	6348R	B	
6349	0618	0707	6349A	B		064227	E071.7	6349	0538	0715	6349A	B	
6350	0805	0854	6350A	B		082944	E044.9	6350	0720	0901	6350A	B	
6351	0952	1041	6351A	B		101700	E018.0	6351	0906	1047	6351A	B	
6352	1140	1229	6352A	B		120417	W008.8	6352	1053	1231	6352A	B	
6353	1327	1416	6353A	B		135133	W035.6	6353	1236	1419	6353A	B	
6354	1514	1600	6354A	B		153849	W062.4	6354	1424	1601	6354A	B	
6355	1702	1745	6355A	B		172606	W089.2	6355	1607	1746	6355A	B	
6356	1849	1928	6356A	B		191322	W116.0	6356	1751	1929	6356A	B	
6357	2036	2118	6357A	B		210039	W142.9	6357	1936	2120	6357A	B	
6358						224755	W169.7						

*NO 6.7 DATA

NIGHTTIME THIR						DESC. NODE		NEMS - SCR - ITPR					

6346*	0145	0159	6348R	A		021411	W041.2	0006	0200	6348R	A		
6346*	0155	0243	6347R	B				0156	0348	6347R	B		
6347*	0332	0347	6347R	B		040127	W068.1	0355	0531	6348R	B		
6347	0355	0431	6348R	B				0536	0715	6349A	B		
6348	0519	0530	6348R	B		054844	W094.9	0720	0902	6350A	B		
6348	0537	0618	6349A	B				0906	1048	6351A	B		
6349*	0707	0713	6349A	B		073600	W121.7	1052	1231	6352A	B		
6349	0720	0805	6350A	B				1236	1419	6353A	B		
6350	0854	0859	6350A	B		092317	W148.5	1424	1602	6354A	B		
6350	0906	0952	6351A	B				1606	1747	6355A	B		
6351	1052	1140	6352A	B		111033	W175.3	1752	1929	6356A	B		
6352	1236	1327	6353A	B		125750	E157.8	1935	2119	6357A	B		
6353	1424	1514	6354A	B		144506	E131.0						
6354	1606	1702	6355A	B		163223	E104.2						
6355	1752	1849	6356A	B		181939	E077.4						
6356	1938	2036	6357A	B		200656	E050.6						
6357						215412	E023.7						
6358						234128	W003.1						

*NO 6.7 DATA

TABLE 2-2 (Continued)
DATA AVAILABILITY ON-OFF TIMES
30 MARCH 1974

THIR										ESMR									
-----										-----									
11.5 • 6.7			INT	H	THIR	ASC. AND		DESC. NODE					INT	H					
DATA	ON	OFF	ORBIT	D	GRID	TIME	LONG	TIME	LONG	DATA	ON	OFF	ORBIT	D	TIME	LONG	TIME	LONG	
ORBIT	HRMN	HRMN	STDN	S	LALO	HRMNSS	DEG			ORBIT	HRMN	HRMN	STDN	S					
DAYTIME THIR										ASC. NODE									
6359						003512	E163.5			6360	0107	0258	6361R	B					
6360	0158	0247	6361R	B		022228	E136.7			6361	0258	0452	6361R	A					
6361	0345	0434	6361R	A		040945	E109.9			6362	0453	0635	6362R	B					
6362	0533	0621	6362R	B		055701	E083.0			6363	0641	0817	6363A	B					
6363	0720	0809	6363A	B		074418	E056.2			6364	0822	1000	6364A	B					
6364	0907	0956	6364A	B		093134	E029.4			6365	1006	1152	6365A	B					
6365	1054	1143	6365A	B		111851	E002.6			6366	1158	1334	6366A	B					
6366	1242	1331	6366A	B		130607	W024.2			6367	1338	1516	6367A	B					
6367	1429	1515	6367A	B		145324	W051.1			6368	1522	1705	6368A	B					
6368	1616	1704	6368A	B		164040	W077.9			6369	1711	1843	6369A	B					
6369	1804	1841	6369A	B		182757	W104.7			6370	1849	2031	6370A	B					
6370	1951	2030	6370A	B		201513	W131.5			6371	2037	2217	6371A	B					
6371	2138	2216	6371A	B		220229	W158.3												
6372						234946	E174.9												
NIGHTTIME THIR										DESC. NODE									
6359	0106	0158	6361R	B		012845	W029.9			NEMS - SCR - ITPR									
6360	0247	0257	6361R	B		031601	W056.7			0106	0258	6361R	B						
6360	0259	0345	6361R	A						0259	0452	6361R	A						
6361	0434	0450	6361R	A		050318	W083.5			0453	0635	6362R	B						
6361	0453	0533	6362R	B						0640	0817	6363A	B						
6362	0621	0634	6362R	B		065034	W110.4			0822	1001	6364A	B						
6362	0640	0720	6363A	B						1005	1152	6365A	B						
6363	0809	0816	6363A	B		083751	W137.2			1158	1334	6366A	B						
6363	0822	0907	6364A	B						1338	1517	6367A	B						
6364	1005	1054	6365A	B		102507	W164.0			1522	1706	6368A	B						
6365	1143	1151	6365A	B		121224	E169.2			1710	1843	6369A	B						
6365	1158	1242	6366A	B						1848	2032	6370A	B						
6366	1338	1429	6367A	B		135940	E142.4			2037	2218	6371A	B						
6367	1522	1616	6368A	B		154656	E115.6												
6368	1710	1804	6369A	B		173413	E088.7												
6369	1852	1951	6370A	B		192129	E061.9												
6370	2040	2138	6371A	B		210846	E035.1												
6371						225602	E008.3												
6372	0024	0113	6375R	A		004319	W018.6												

TABLE 2-2 (Continued)
DATA AVAILABILITY ON-OFF TIMES
31 MARCH 1974

THIR										ESMR									
-----										-----									
DATA	11.5 + 6.7		INT	H	THIR	ASC. AND				DATA			INT	H					
ORBIT	ON	OFF	ORBIT	D	GRID	DESC.	NODE	TIME	LONG	ORBIT	ON	OFF	ORBIT	D	TIME	LONG	TIME	LONG	
	HRMN	HRMN	STDN	R	CORR	HRMNSS	DEG				HRMN	HRMN	STDN	R					
				S	LALO									S					
DAYTIME THIR										ASC. NODE									
6373	0113	0202	6375R	A		013702	E148.1			6373	0024	0215	6375R	A					
6374	0300	0349	6374R	B		032419	E121.2			6374	0208	0405	6374R	B					
6375	0447	0536	6375R	B		051135	E094.4			6375	0410	0553	6375R	B					
6376	0635	0723	6376A	B		065852	E067.6			6376	0559	0730	6376A	B					
6377	0822	0911	6377A	B		084608	E040.8			6377	0735	0915	6377A	B					
6378	1009	1058	6378A	B		103325	E013.9			6378	0921	1104	6378A	B					
6379	1156	1245	6379A	B		122041	W012.9			6379	1109	1249	6379A	B					
6380	1344	1428	6380A	B		140758	W039.7			6380	1254	1433	6380A	B					
6381	1531	1613	6381A	B		155514	W066.5			6381	1438	1615	6381A	B					
6382	1718	1757	6382A	B		174231	W093.3			6382	1621	1801	6382A	B					
6383	1906	1944	6383A	B		192947	W120.2			6383	1806	1945	6383A	B					
6384	2053	2134	6384A	B		211704	W147.0			6384	1951	2136	6384A	B					
6385						230420	W173.8												
NIGHTTIME THIR										DESC. NODE									
6373	0202	0214	6375R	A		023035	W045.4												
6373	0208	0300	6374R	B															
6374	0349	0358	6374R	B		041752	W072.2												
6374	0410	0447	6375R	B															
6375	0536	0547	6375R	B		060508	W099.0												
6375	0559	0635	6376A	B															
6376	0723	0728	6376A	B		075225	W125.8												
6376	0735	0822	6377A	B															
6377	0924	1009	6378A	B		093941	W152.6												
6378	1108	1156	6379A	B		112658	W179.5												
6379	1254	1344	6380A	B		131414	E153.8												
6380	1438	1531	6381A	B		150130	E126.9												
6381	1621	1718	6382A	B		164847	E100.1												
6382	1807	1906	6383A	B		183603	E073.3												
6383	1954	2053	6384A	B		202320	E046.5												
6384						221036	E019.7												
6385						235753	W007.2												
										NEMS - SCR - ITPR									

						0024	0215	6375R	A										
						0208	0405	6374R	B										
						0410	0553	6375R	B										
						0559	0731	6376A	B										
						0735	0916	6377A	B										
						0921	1104	6378A	B										
						1108	1249	6379A	B										
						1254	1433	6380A	B										
						1438	1616	6381A	B										
						1621	1801	6382A	B										
						1806	1946	6383A	B										
						1950	2136	6384A	B										

SECTION 3

ELECTRICALLY SCANNING MICROWAVE RADIOMETER DISPLAYS

One ESMR display per day has been selected for presentation in this section. All ESMR coverage times are listed in the Data Availability On-Off Times (Table 2-2). Each display contains the following items:

Nimbus 5 ESMR

This identifies the satellite (Nimbus 5) and the experiment (ESMR).

Date

This identifies the Greenwich day, month, and year the data is recorded.

Data Orbit

This data orbit number identifies only the last data orbit on each display. Usually parts of two data orbits are on the same display, since all data acquired during each satellite interrogation is presented on one 4 x 5-inch negative. In general, nighttime data is on the left and daytime data is on the right.

Program

No Program number is identified on these displays. Its intended use was to identify the appropriate table which would list the temperature interval for each gray level in the gray scale. The temperature programs used since launch are listed in Table 3-1.

Gray Scale

A single 11-step gray scale serves to define ESMR brightness temperatures in all three swaths, by the assignment of a different brightness temperature range to each step for each swath. Table 3-1 defines the gray scale table used on all images since launch.

Image Swaths (1, 2, 3)

A set of three swaths, labeled 1, 2, and 3, separates the same recorded data into three temperature intervals (defined in Table 3-1). The right set of three swaths is a continuation of the left set and is offset because of the limitations of the 4 x 5-inch film format. The three swath presentation is used because it shortens the temperature ranges spanned by each step of the gray scale, and, therefore, permits discrimination of various meteorological and terrestrial phenomena.

Significant in swath 1 are the areas of atmospheric moisture and rainfall over oceans, Swath 2 brightness temperature range discriminates between new and multi-year ice and, over oceans, shows only rainfall areas. The high brightness temperatures of swath 3 outline some land

Table 3-1

ESMR Gray Scale Steps versus Brightness Temperature for Each of the
Three ESMR Swaths in the ESMR Pictorial Displays
(Temperatures in °K)

Swath	Table 1			Table 2			
	Orbit 104 through 502			Orbit 503 through 6385			
	1	2	3	1	2	3	
Gray Scale Number	(black) 1	>200	>262	>280	>210	>266	>290
	2	190-200	256-262	277-280	202-210	258-266	286-290
	3	180-190	250-256	274-277	194-202	250-258	282-286
	4	170-180	240-250	271-274	186-194	242-250	278-282
	5	160-170	230-240	268-271	178-186	234-242	274-278
	6	150-160	220-230	265-268	170-178	226-234	270-274
	7	140-150	210-220	262-265	162-170	218-226	266-270
	8	130-140	200-210	259-262	154-162	210-218	262-266
	9	120-130	190-200	256-259	146-154	202-210	258-262
	10	110-120	180-190	253-256	138-146	194-202	254-258
	(white) 11	<110	<180	<253	<138	<194	<254

areas of high soil moisture content or snow cover, but oceans lose almost all of their temperature contrasts. The swath 3 information was lost because of an instrument malfunction between orbit 1062 (28 February 1973) and orbit 2250 (27 May 1973), and for intervals since orbit 3015 (23 July 1973).

Time Code Index

The Time Code Index, in hours and minutes (GMT), is adjacent to the gray scale. The top number in each set is for the left group of three swaths; the bottom number in each set is for the right group of three swaths. Time bars are spaced at five-minute intervals. The same time bars are used for the left and right swaths. The top or bottom time code index determines the time for each time bar.

Grids

Two grids, labeled GRID L and GRID R, identify the geographic coordinates for the imagery of the left (L) and the right (R) sets of swaths, respectively. Latitude lines are spaced at 10-degree intervals.

Longitude lines are spaced at 10-degree intervals to 60 degrees north and south of the equator, and at 20-degree intervals from 60 to 80 degrees north and south. The equator (EQ), North Pole (NP), and South Pole (SP) are labeled, as well as longitude values at the equator and at 30 and 60 degrees north and south of the equator.

Swath Display Program

The antenna gain function is different at each beam position. Thus, to present a uniform surface temperature as the same shade of gray across a scan track requires that the output voltage at each antenna position be adjusted for its beam position and output voltage value. If the corrections are not precise, vertical bands will be evident in the ESMR pictorial displays.

Three different sets of calibration constants (Display Format Programs) were used during the first two months of operation to eliminate these vertical bands. Two additional programs have been used since the instrument malfunction of 28 February 1973. Volume 1 of this catalog series illustrates the vertical banding produced by the first three programs, while the images in this section illustrate the banding produced by the last two. After 27 May 1973, Program 5 was used for image displays whenever the instrument was operating normally. Table 3-2 shows the Display Format Programs used during this catalog period.

The brightness temperature accuracy varied with each Display Format Program. With display Program 1, which uses prelaunch calibration constants, the digital brightness temperature values have about $\pm 20^{\circ}\text{K}$ accuracy. With a change to postlaunch calibration constants, programs 2 and 4 produce about $\pm 2^{\circ}$ to 5°K temperature value accuracies. Of course, with Programs 2 and 4, the displayed temperature values are accurate only within the limits of the temperature range of each step of the gray scales as defined in Table 3-1. Display Programs 5 and 6 used after the instrument malfunction of 28 February 1973, are considered to produce $\pm 10^{\circ}\text{K}$ temperature accuracies on the image displays.

A description of the ESMR experiment may be found in The Nimbus 5 User's Guide, Section 4, and instructions for ordering the data, both pictorial and digital, are in Section 1.7 of that Guide.

Table 3-2

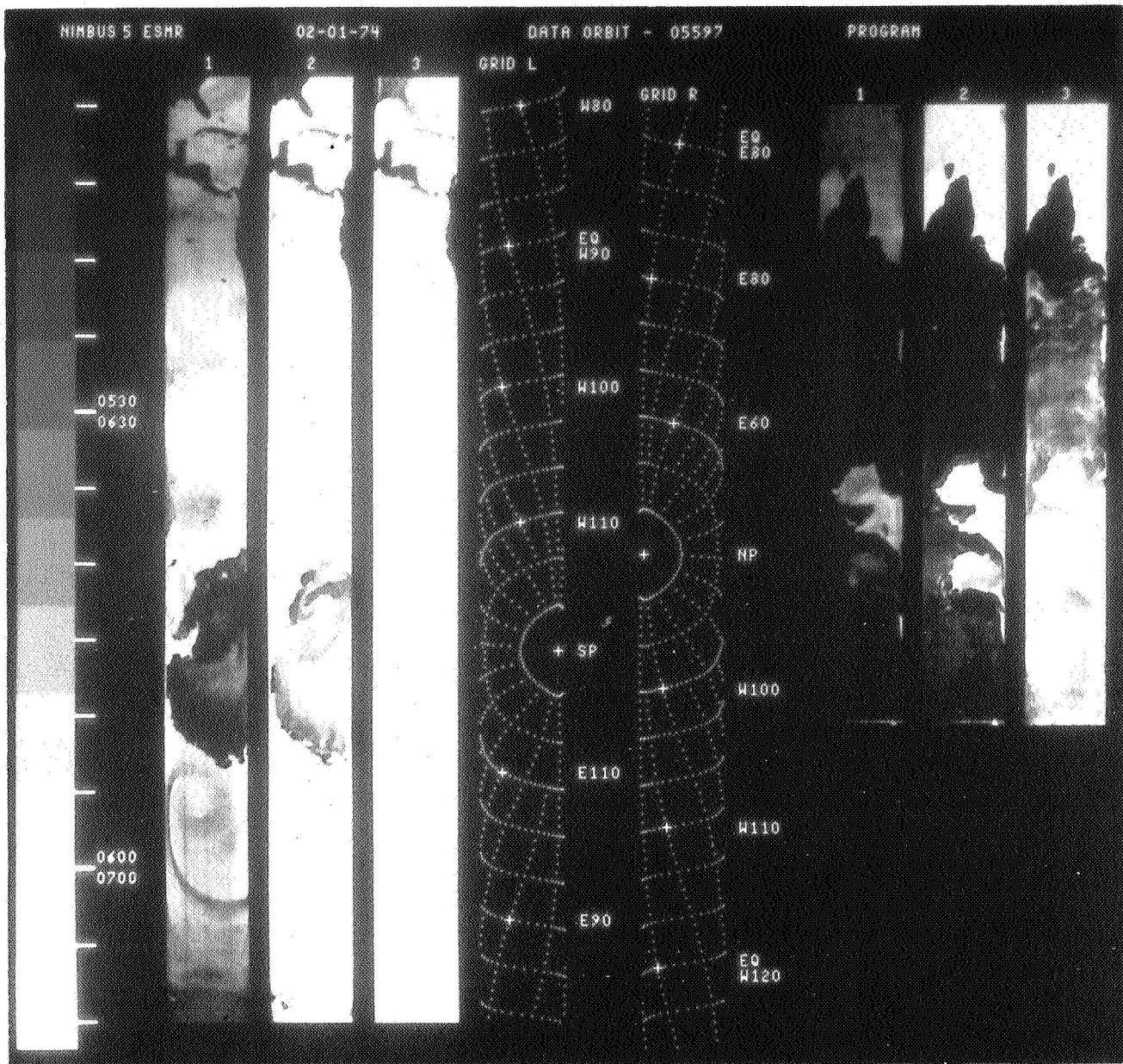
ESMR Display Format Programs for
February 1974 and March 1974

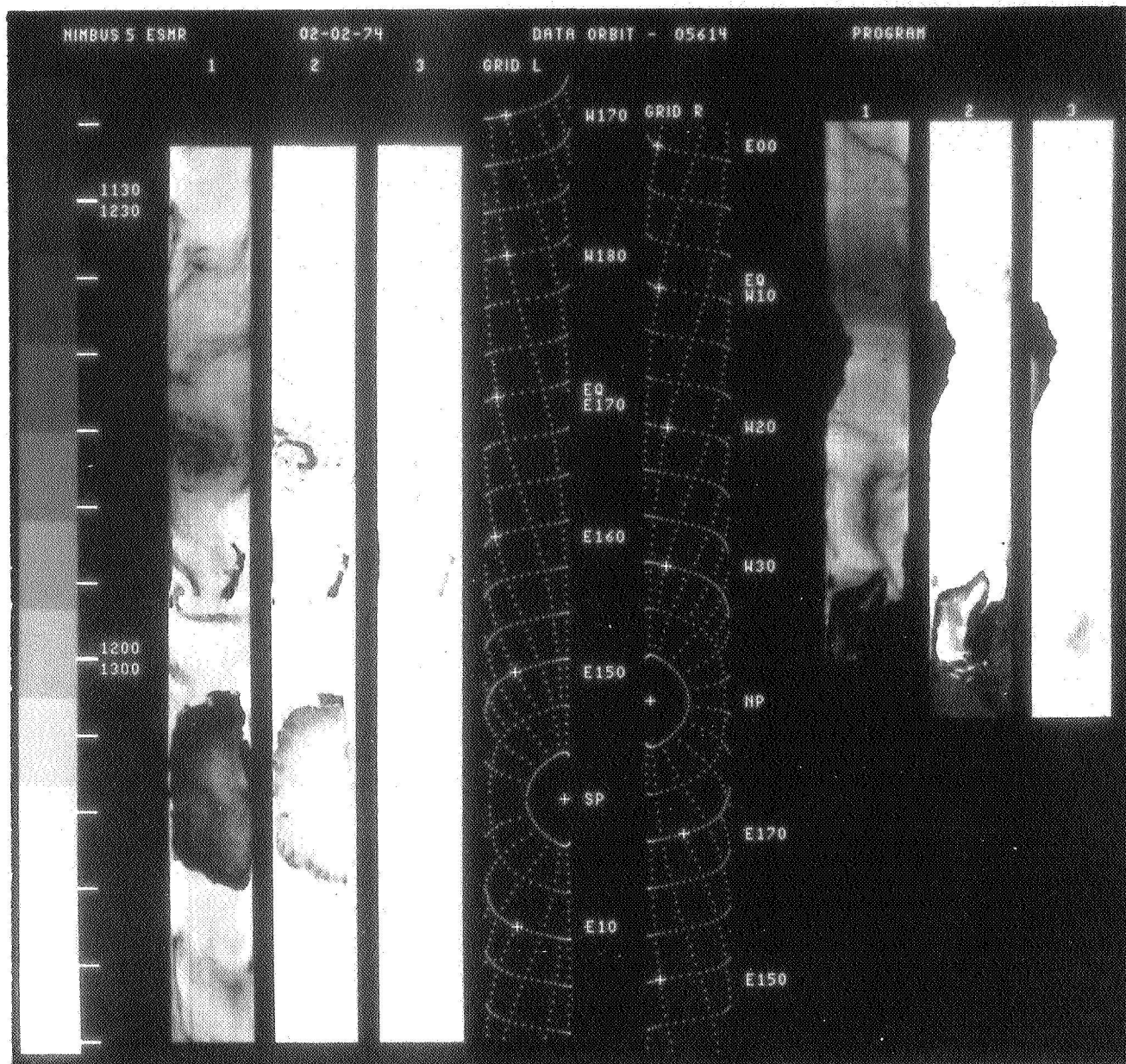
Orbits Processed with Display Format Program 5*		Orbits Processed with Display Format Program 6**	
Date	Orbits	Date	Orbits
1 February - 23 March	5595 - 6265	22 - 23 March	6266 - 6270
23 March	6271 - 6272	23 - 31 March	6273 - 6385

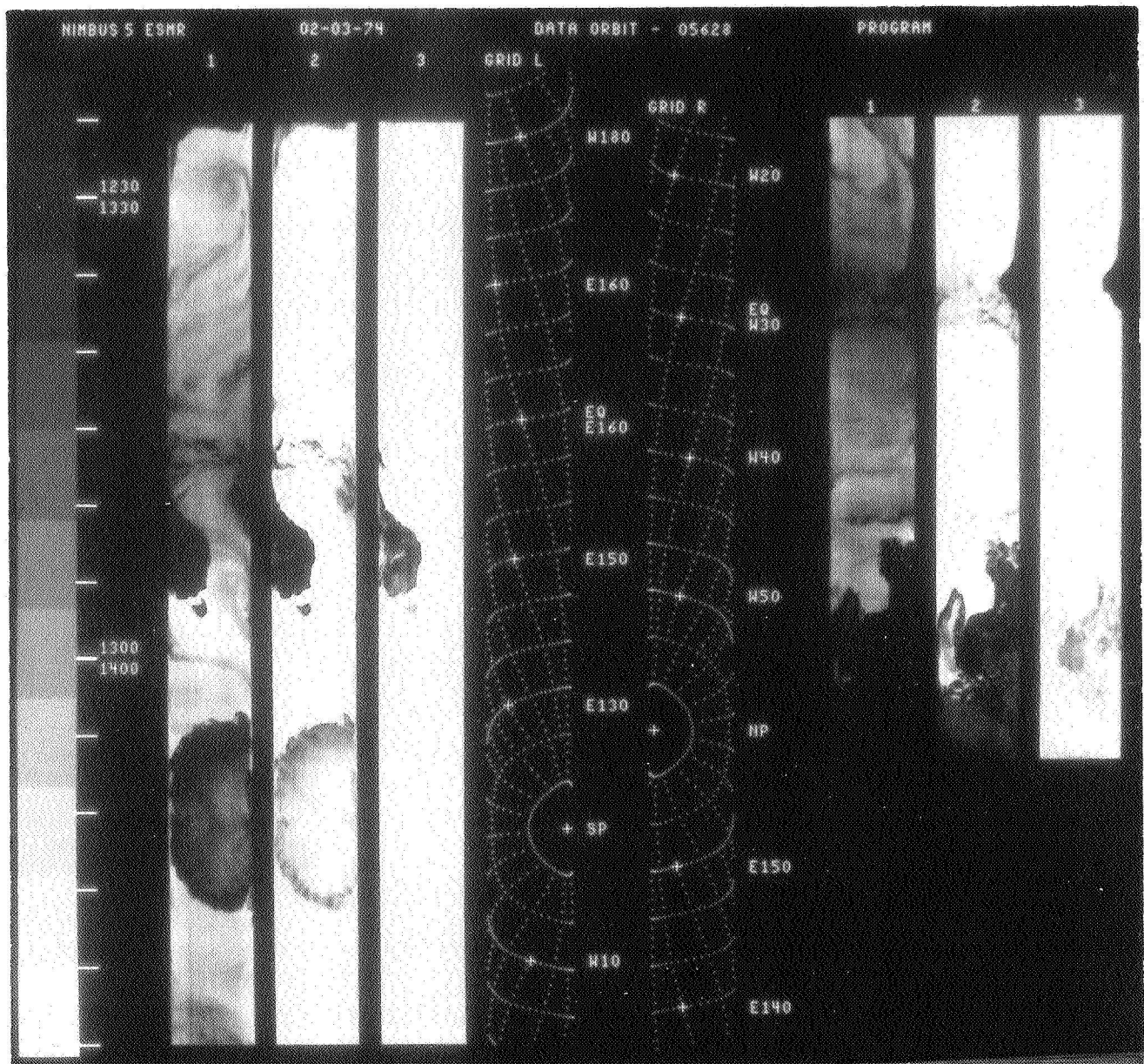
*Program 5 is used whenever the instrument is operating normally (data in all three swaths).

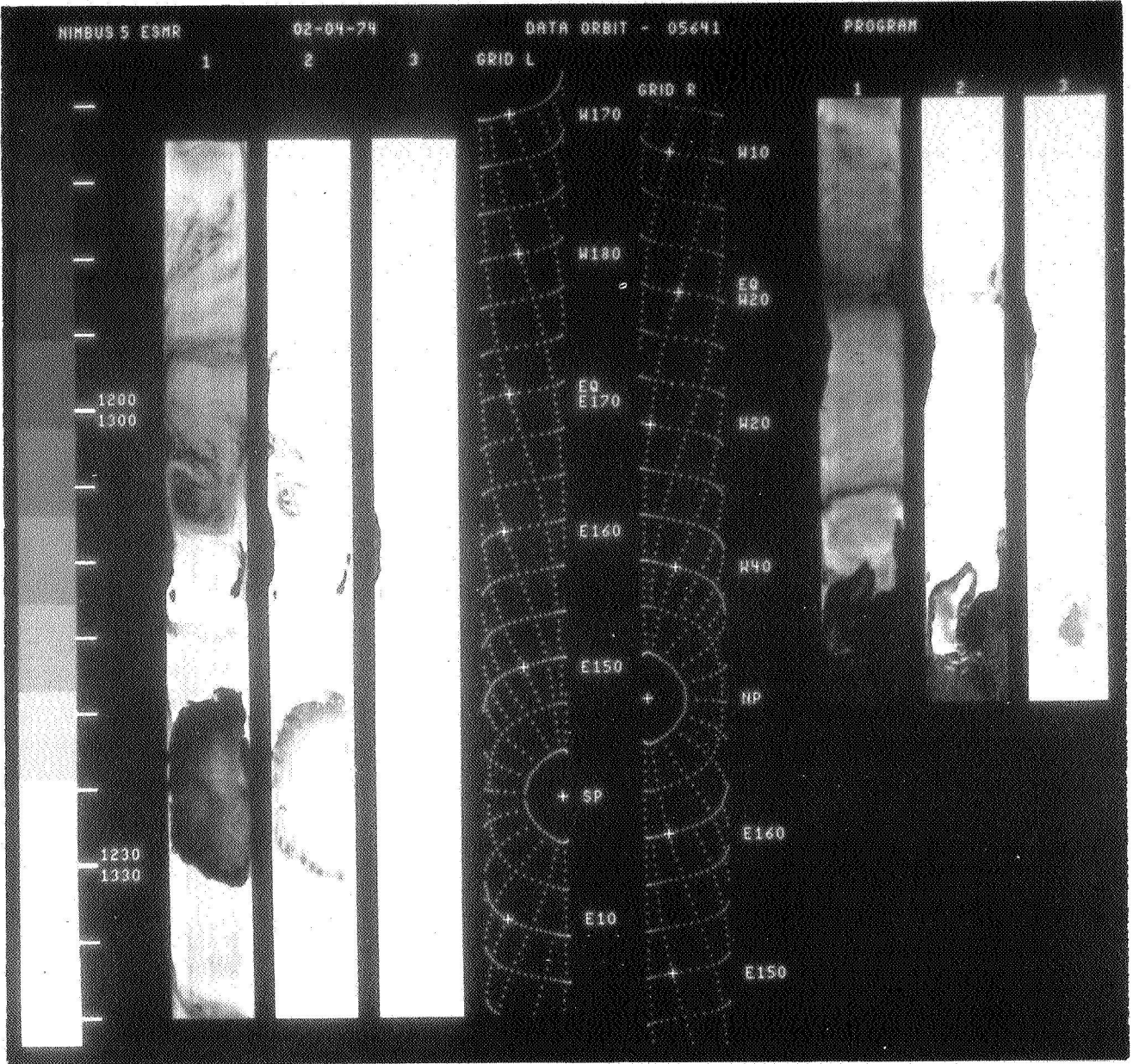
**Program 6 is used whenever the instrument is operating in the reduced response mode (data only in swaths one and two).

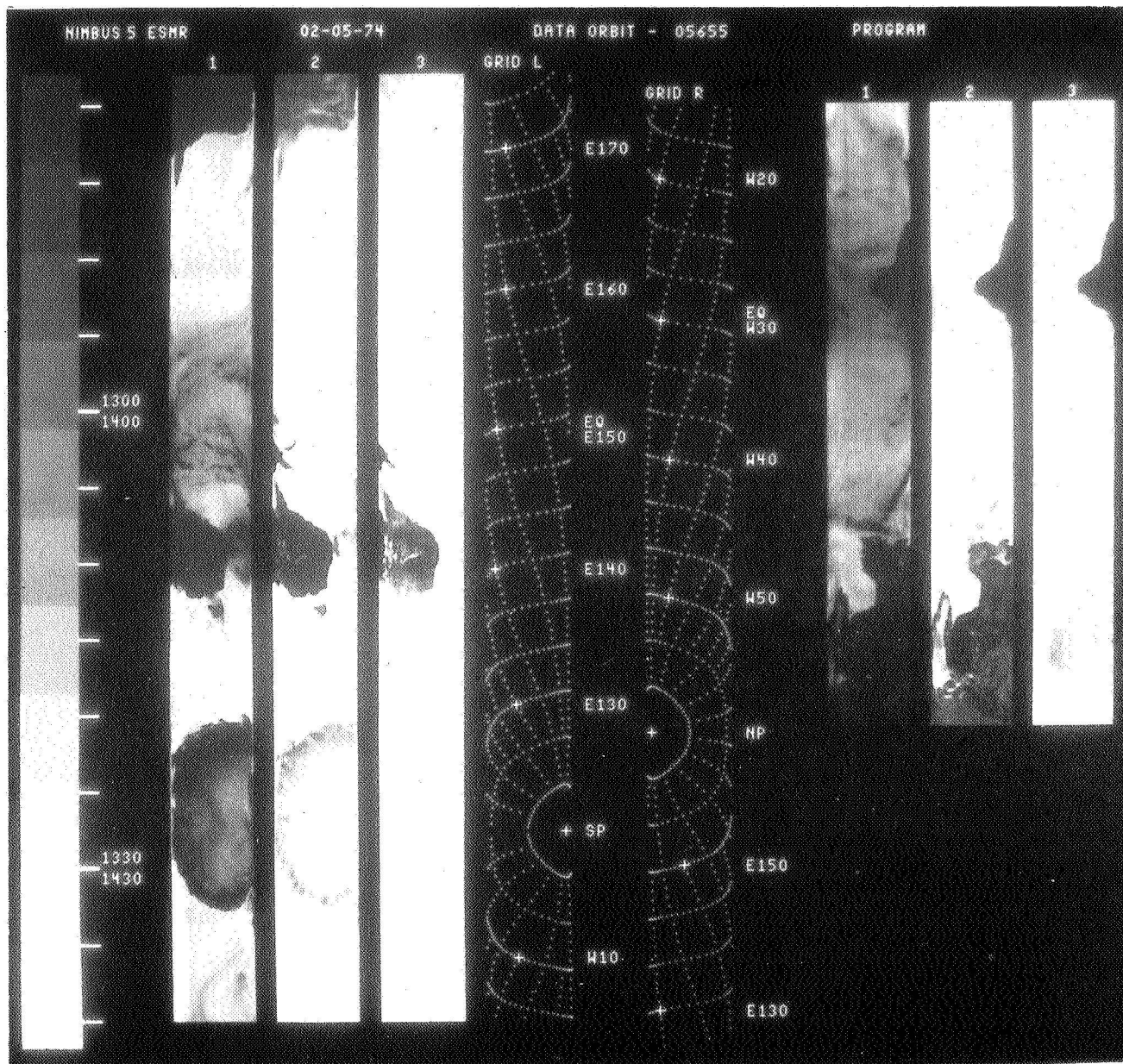
All orbits were processed with Gray Scale Brightness Temperature Table 2 values (See Table 3-1).

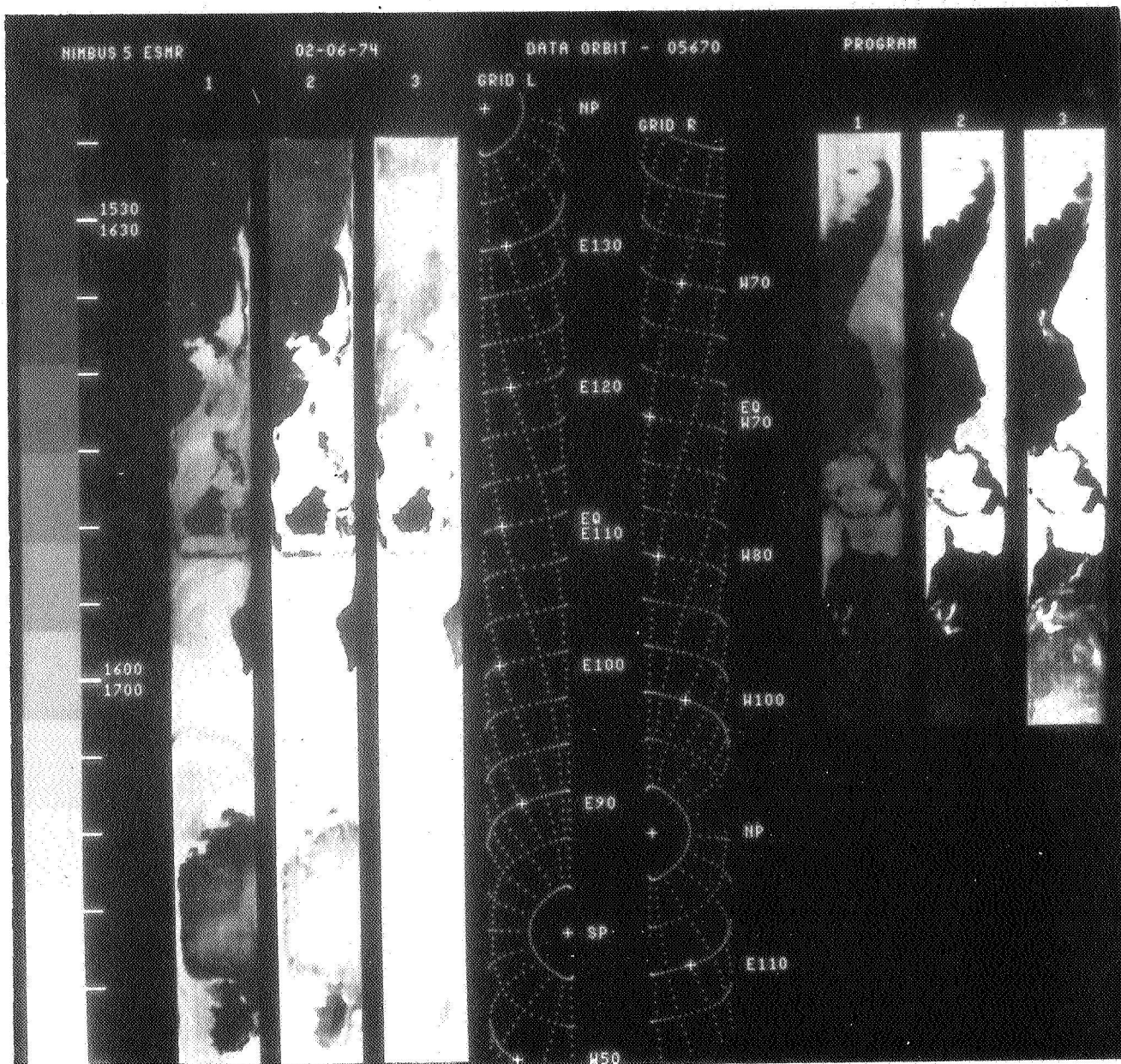


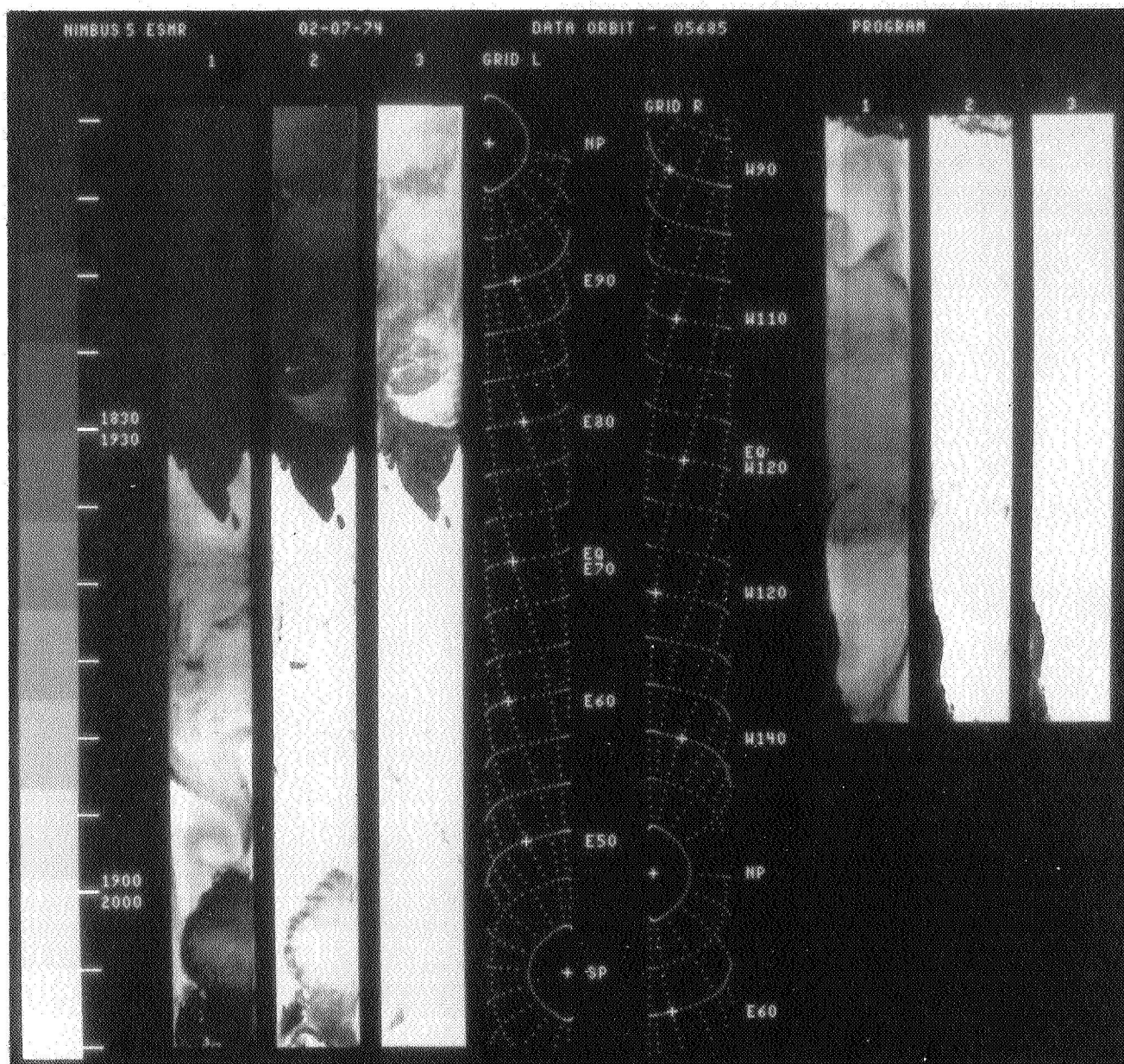


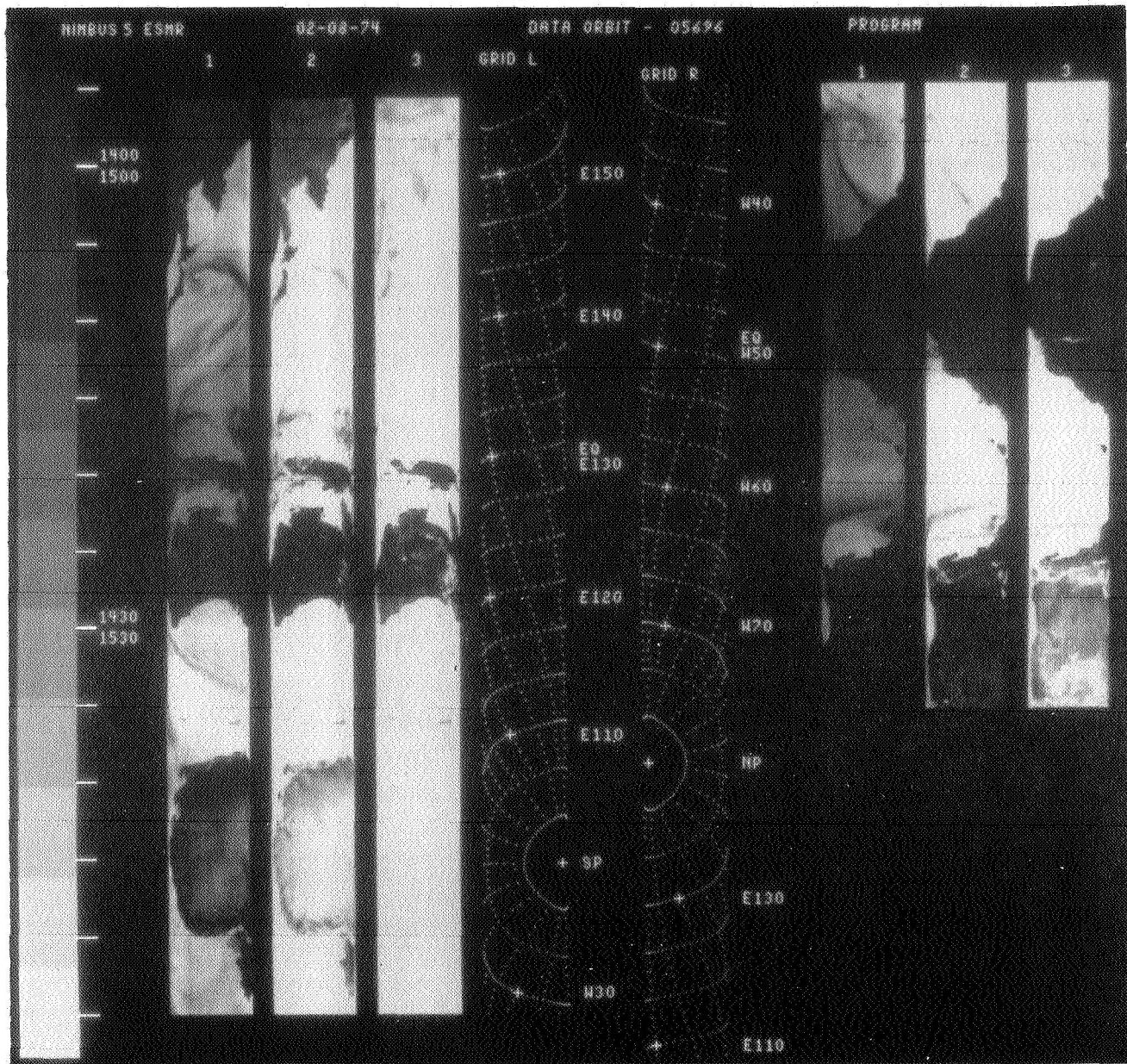


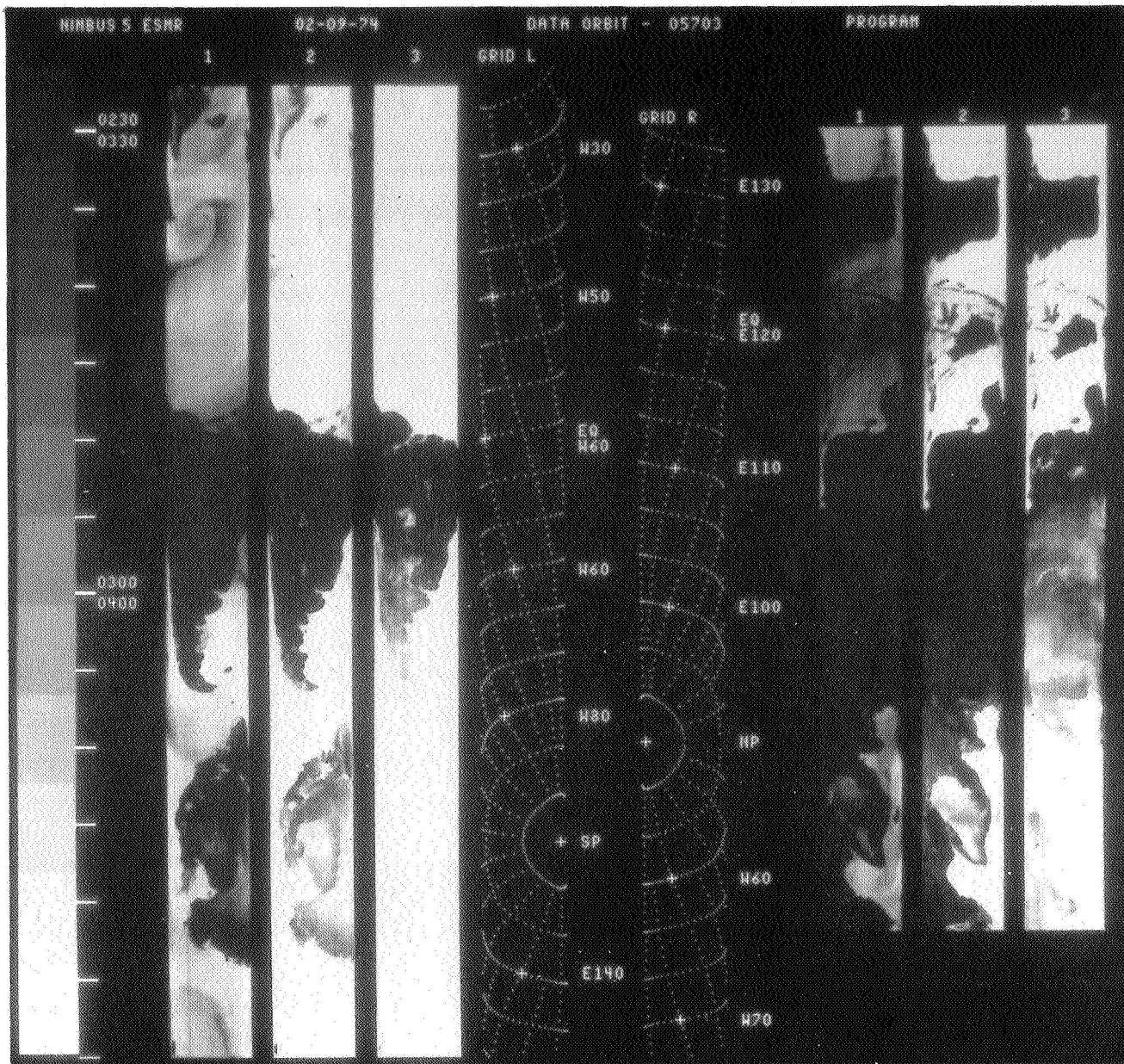


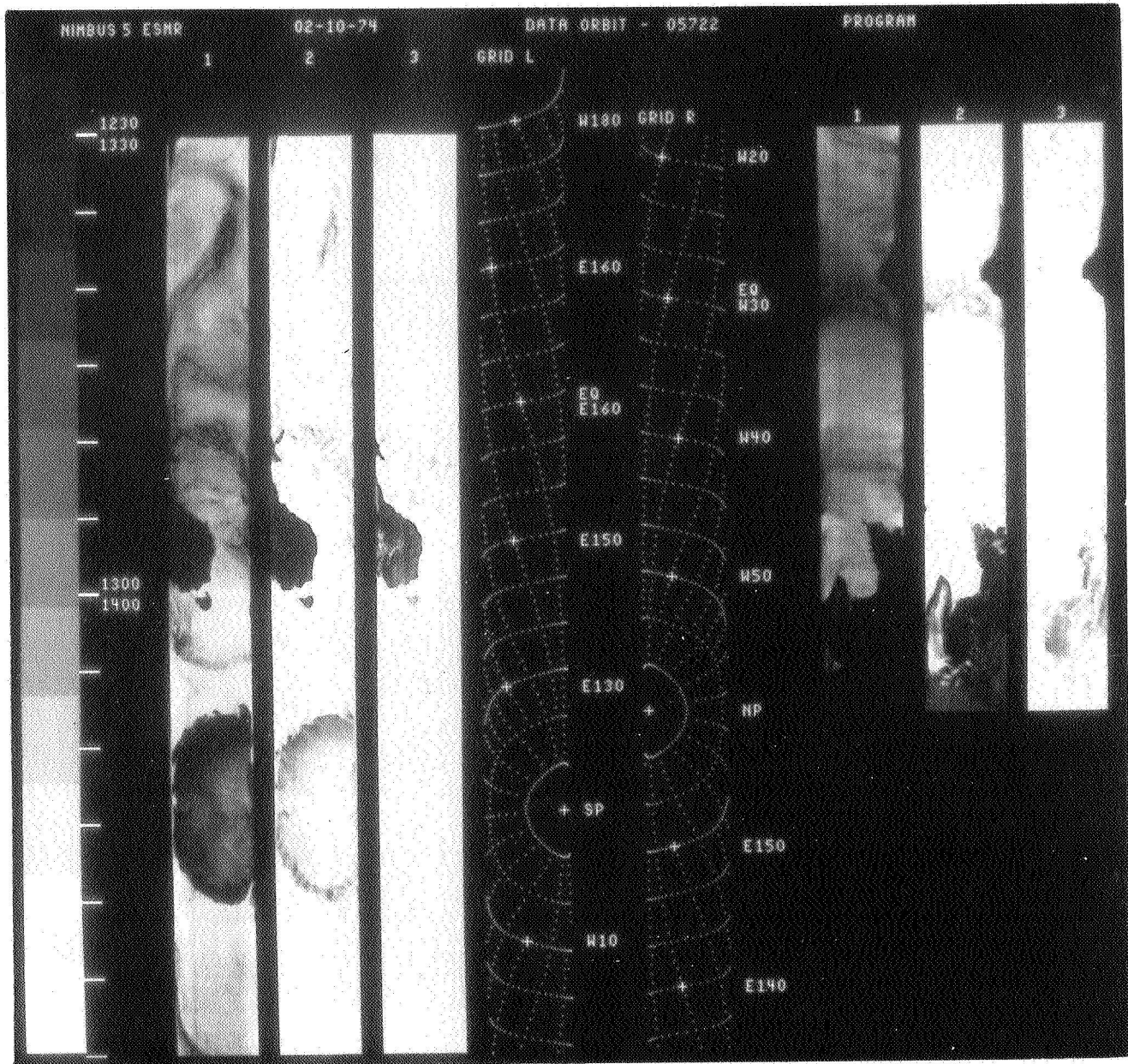


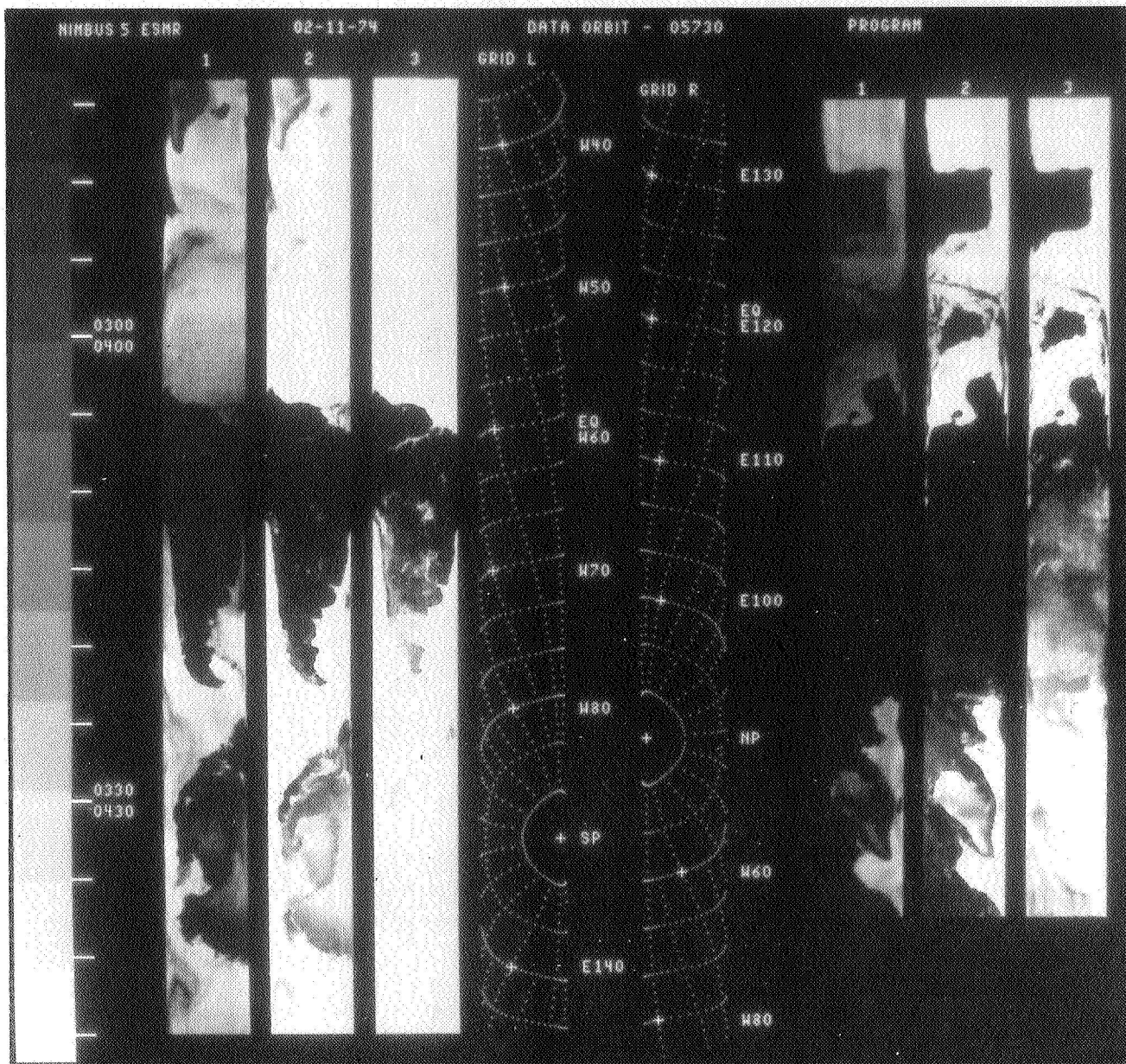


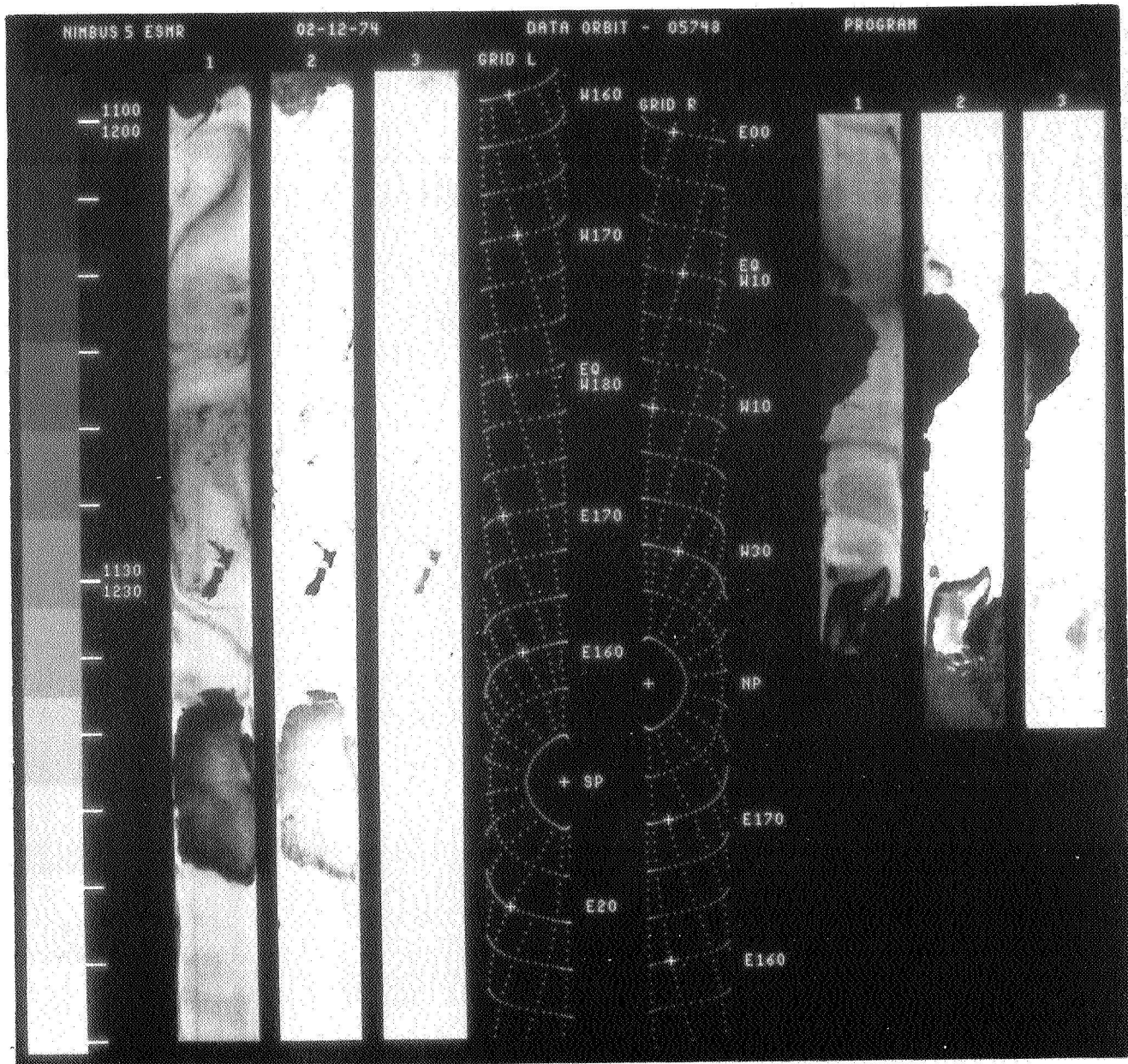


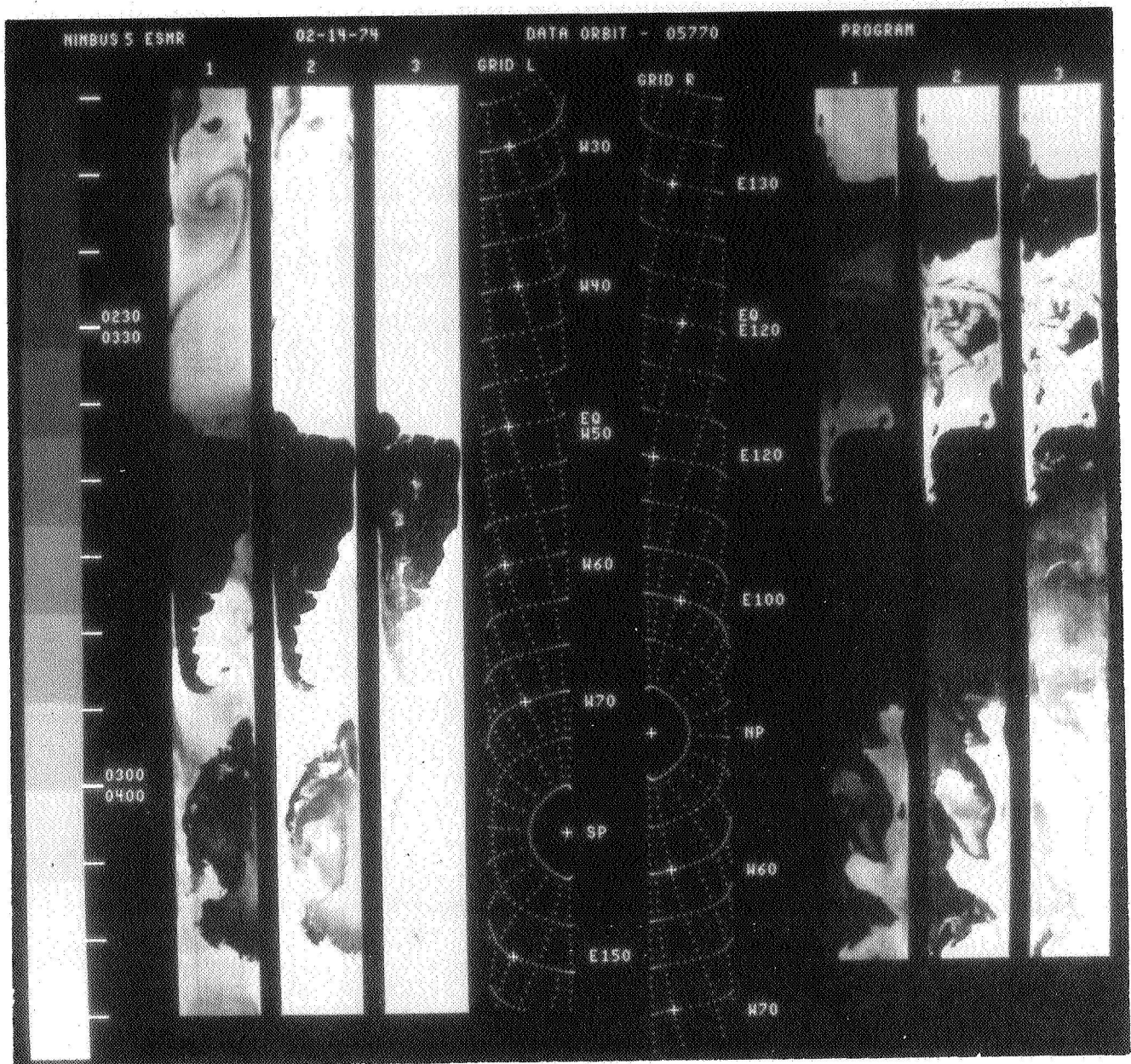


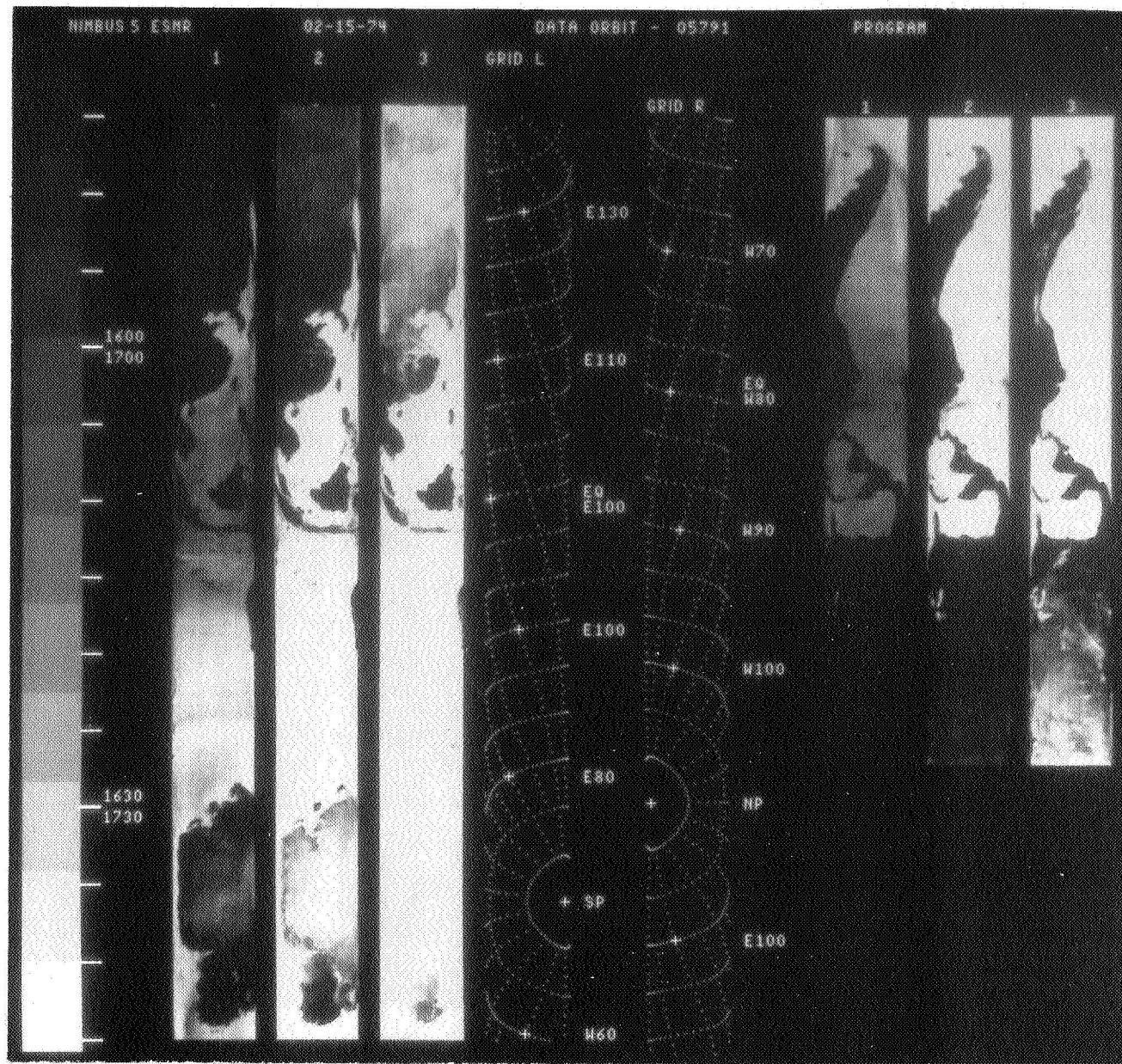


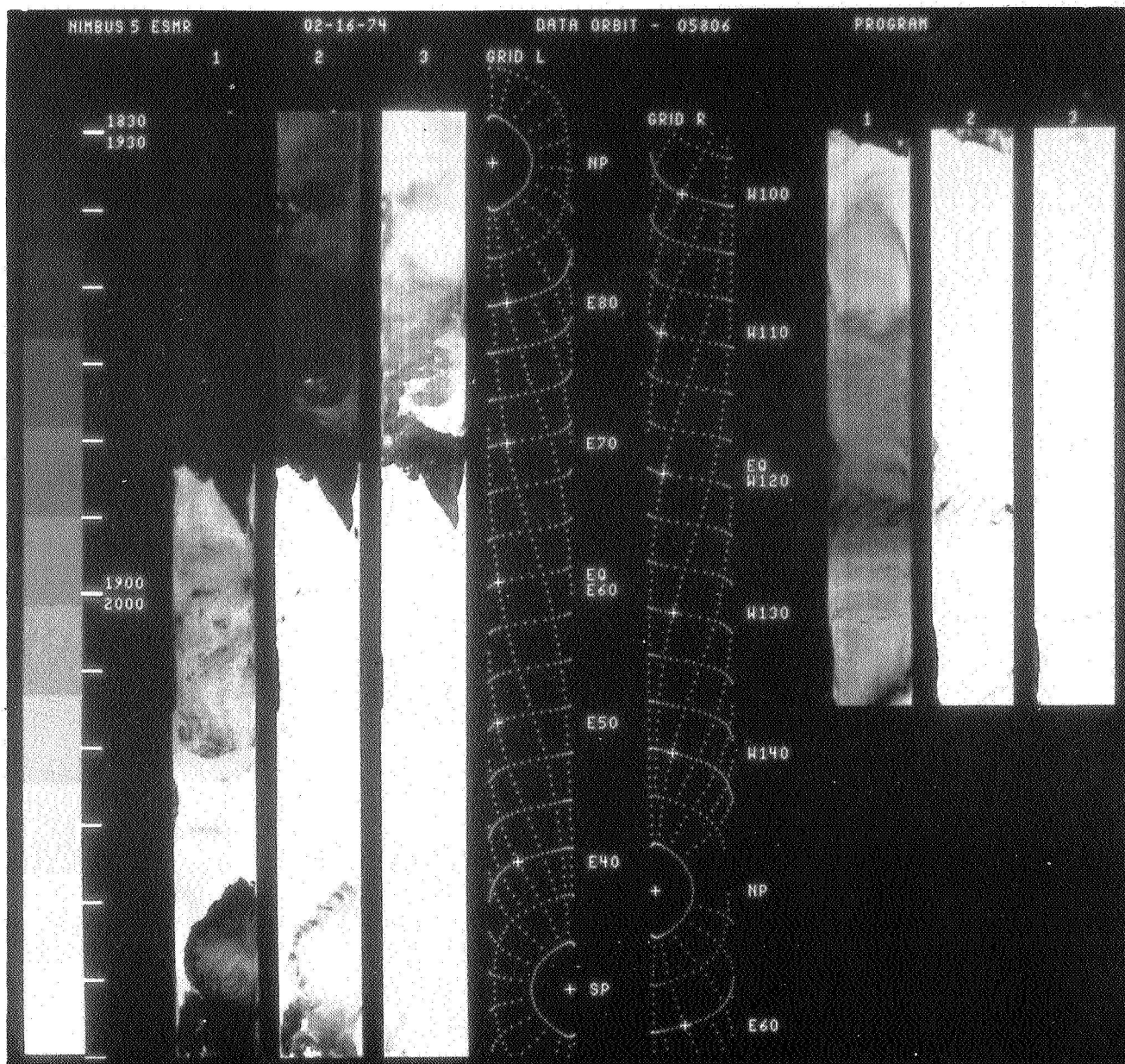


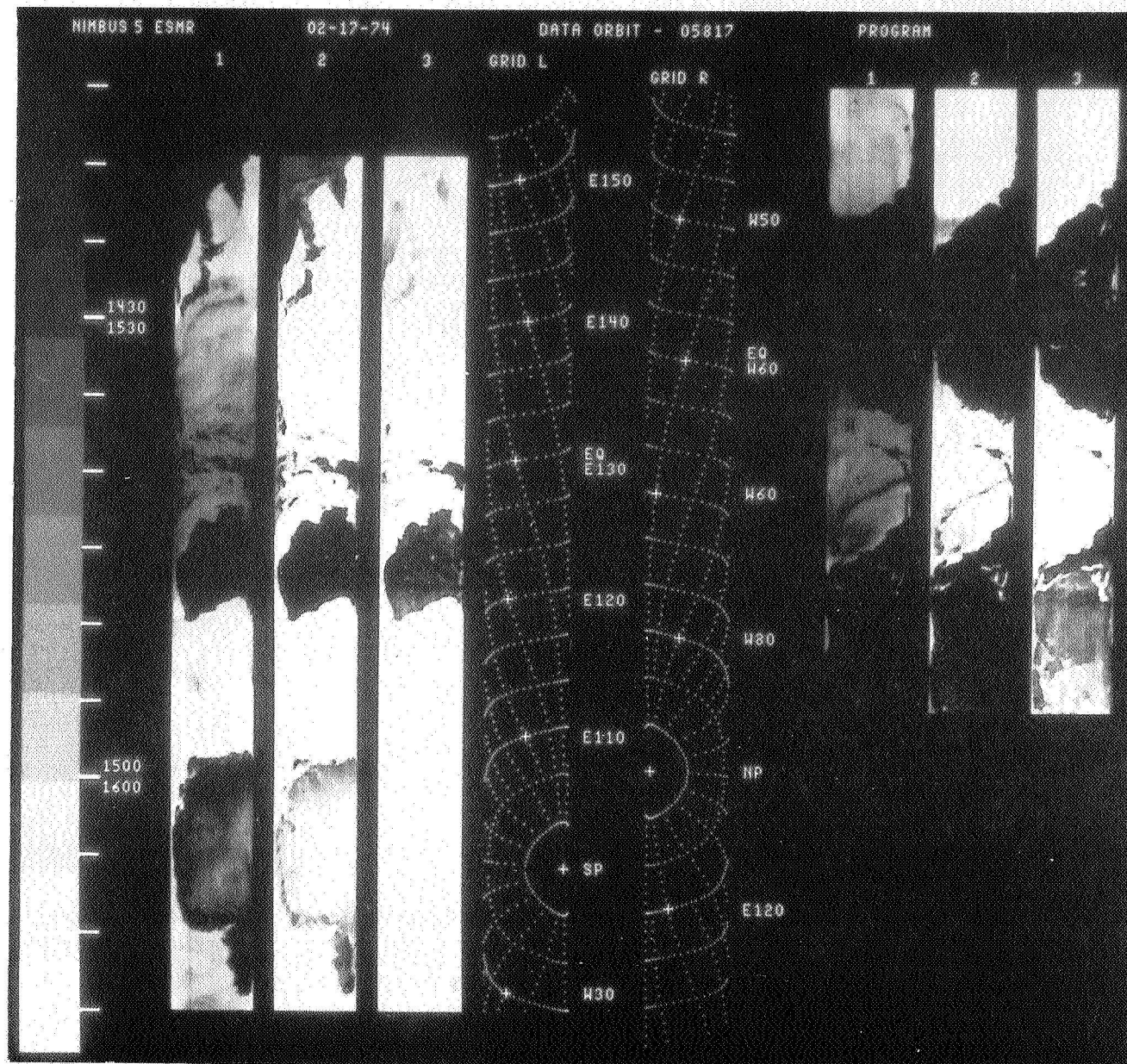


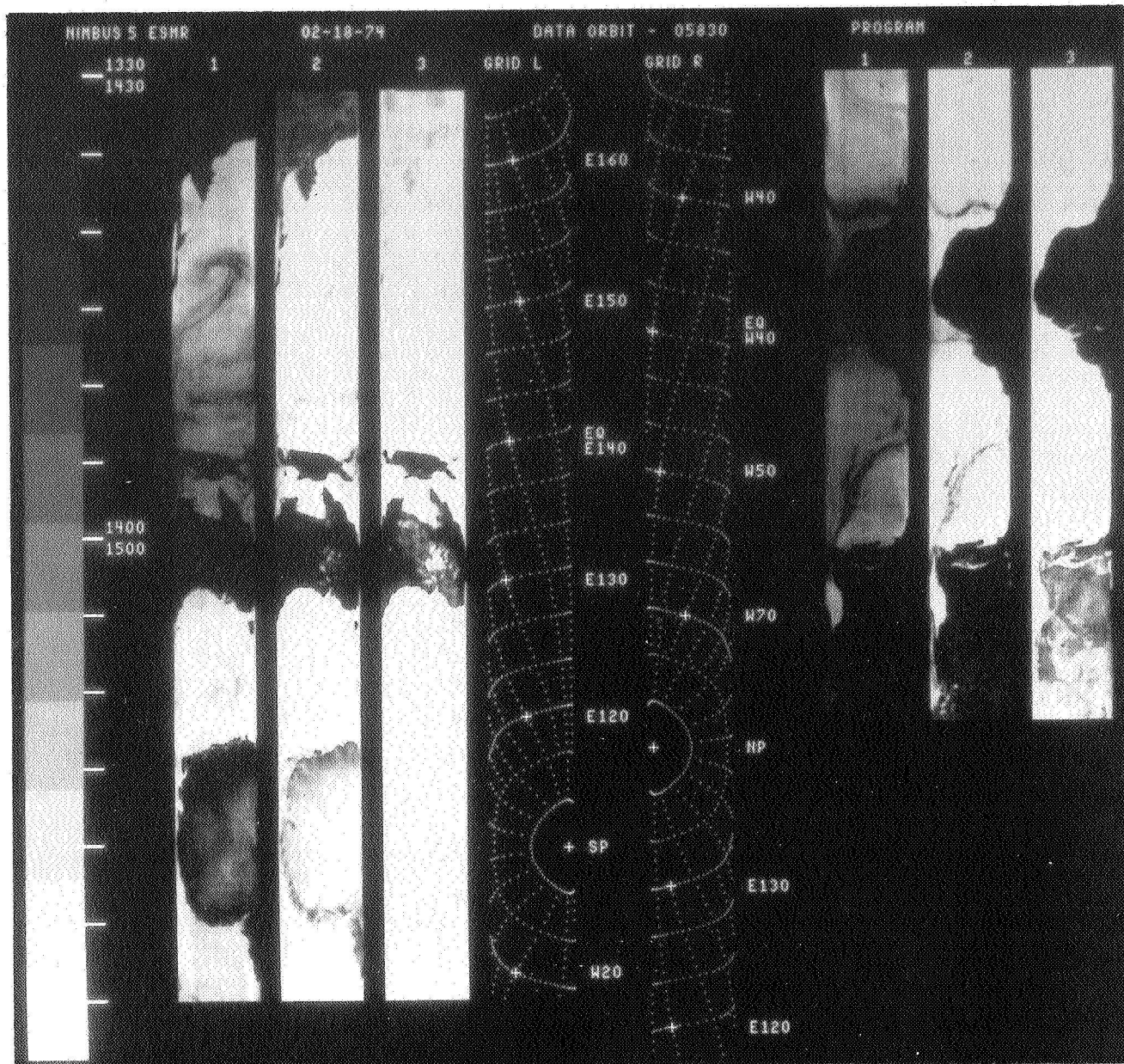


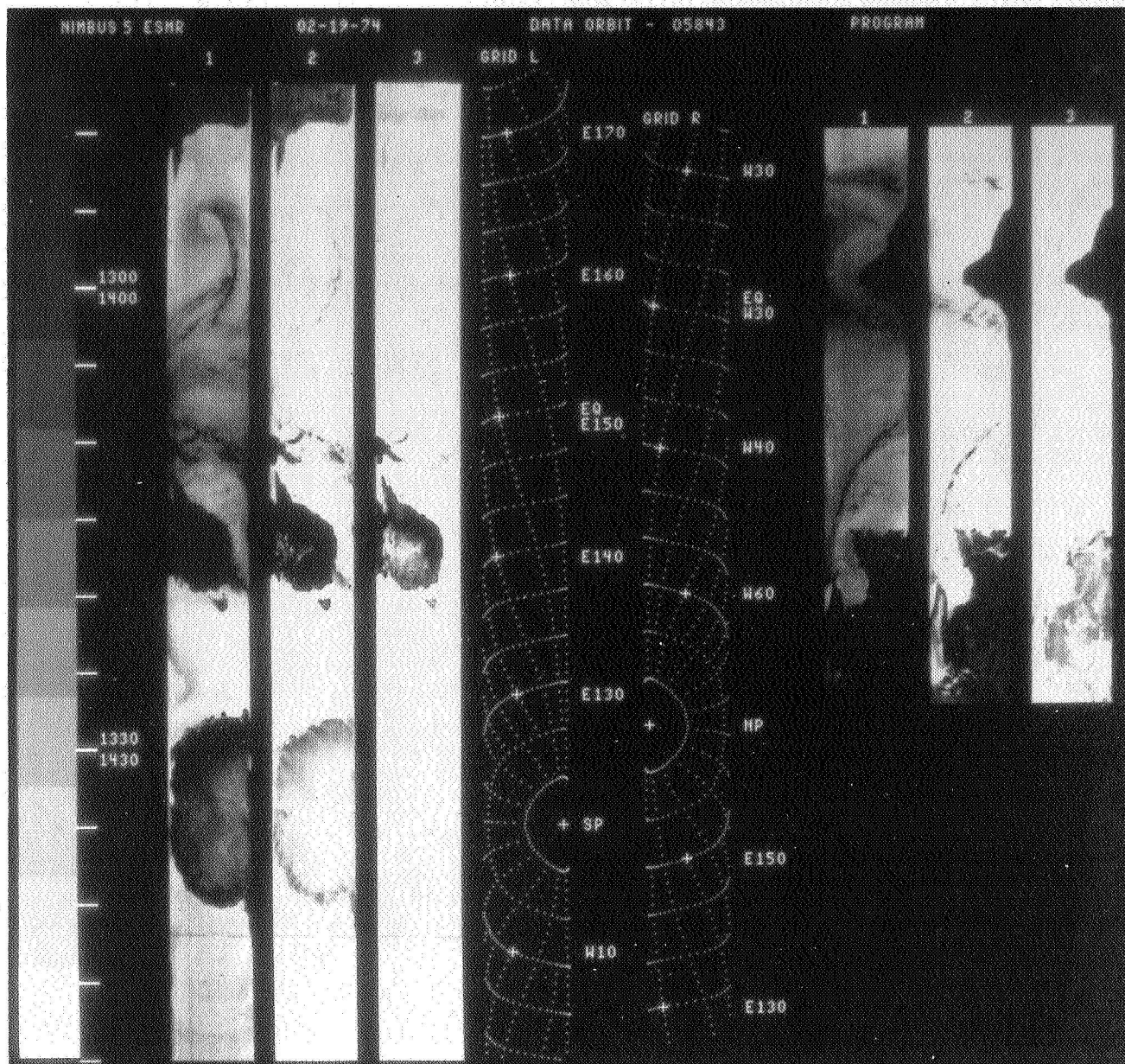


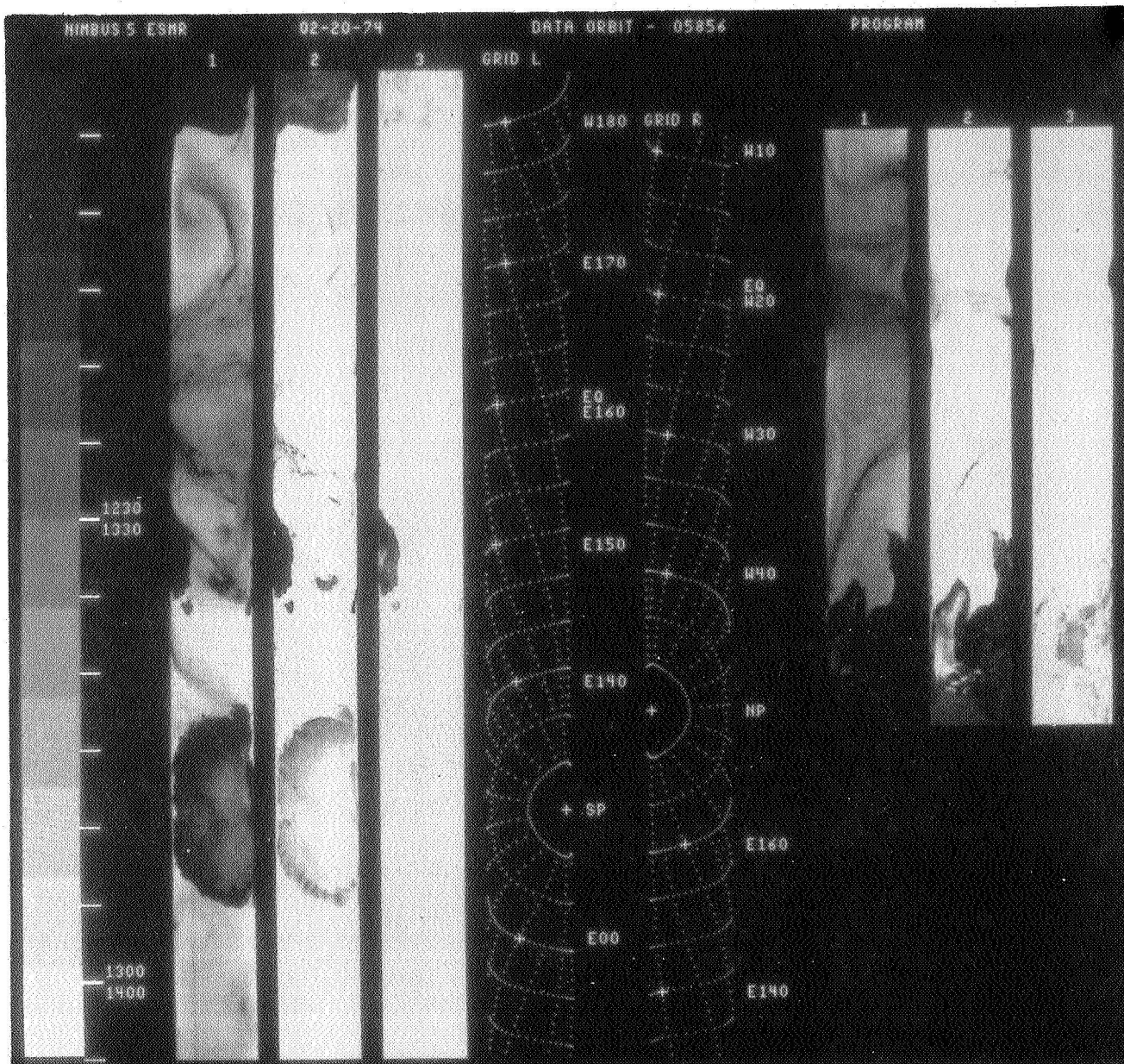


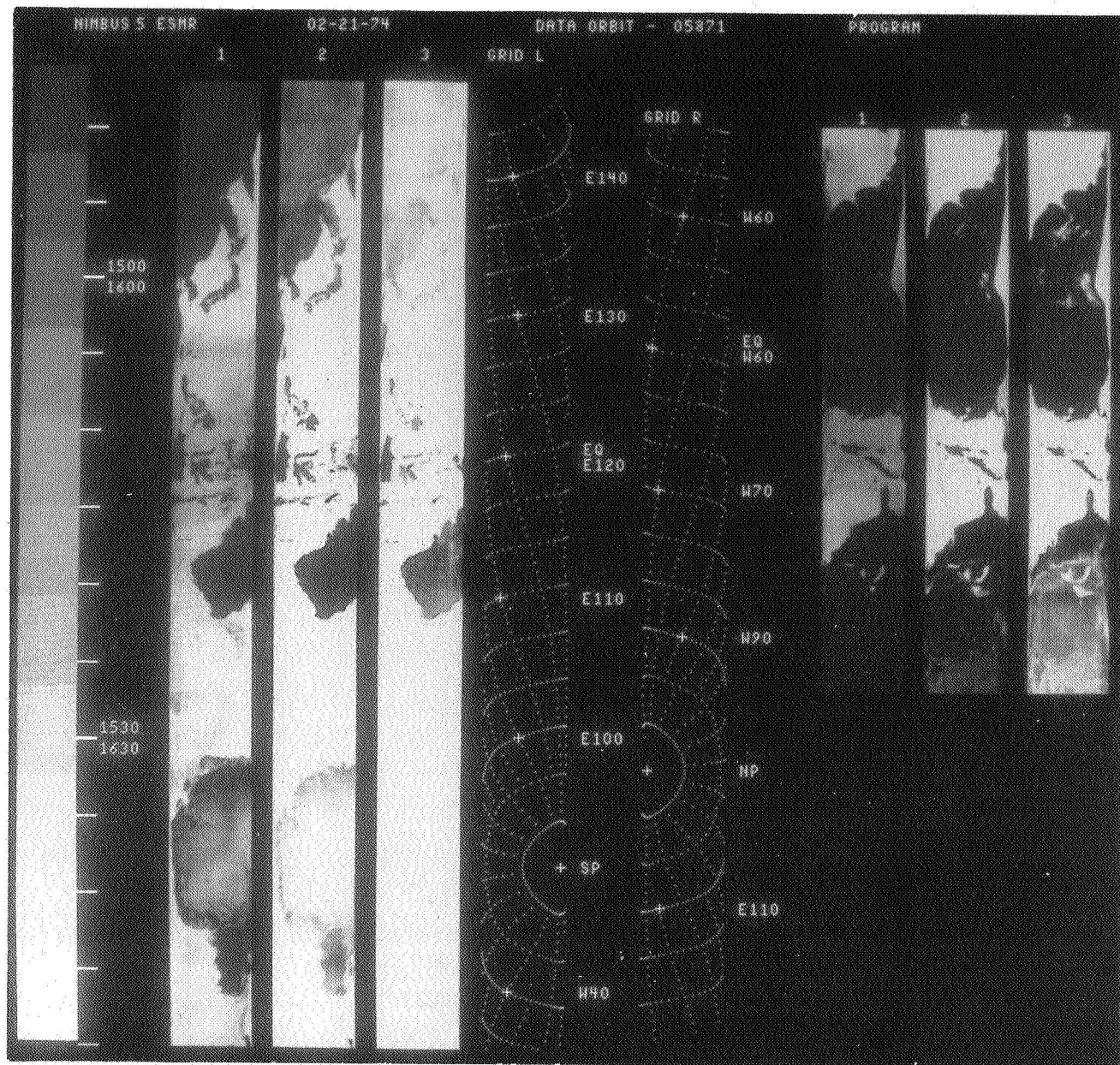


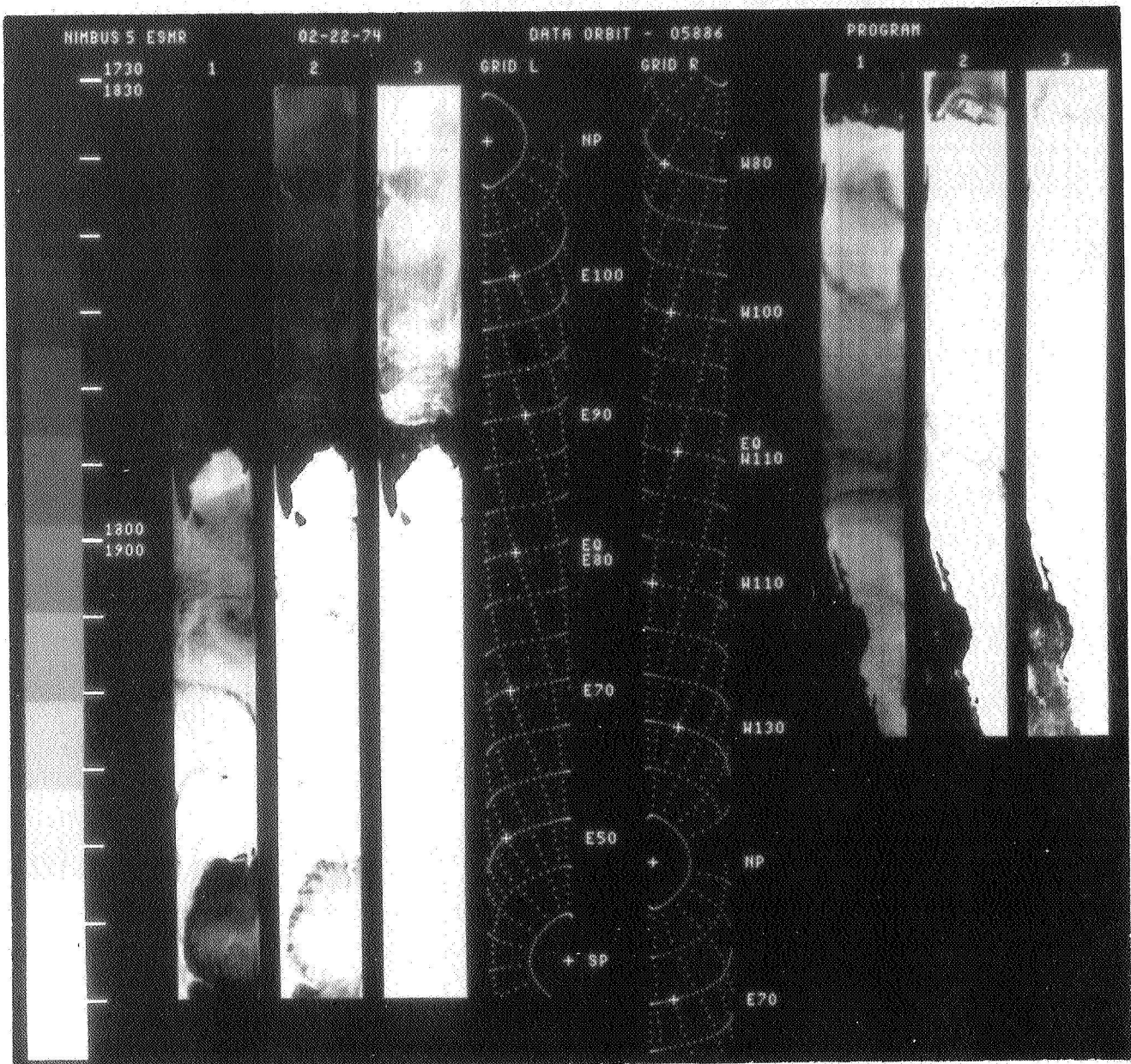


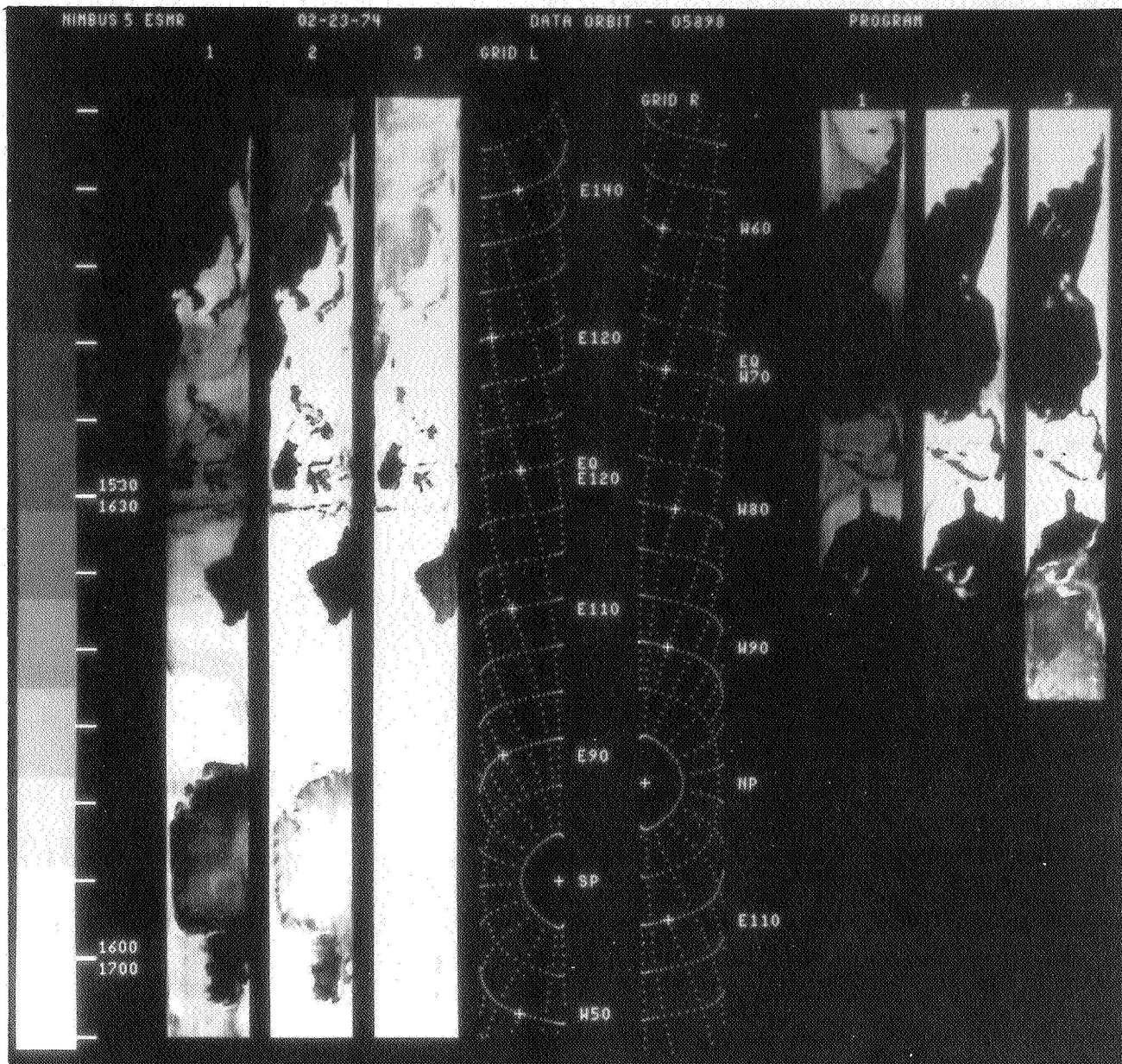


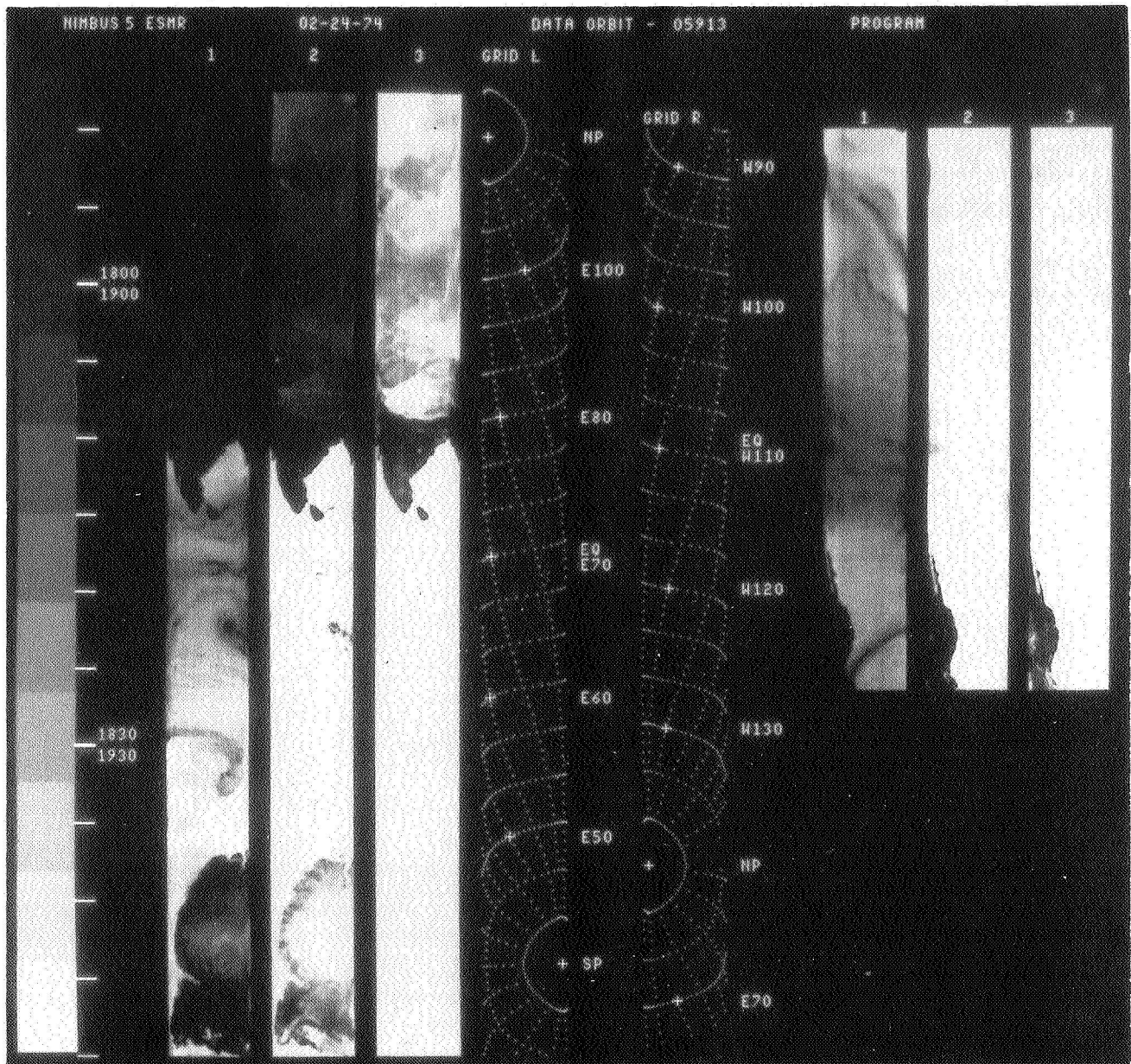


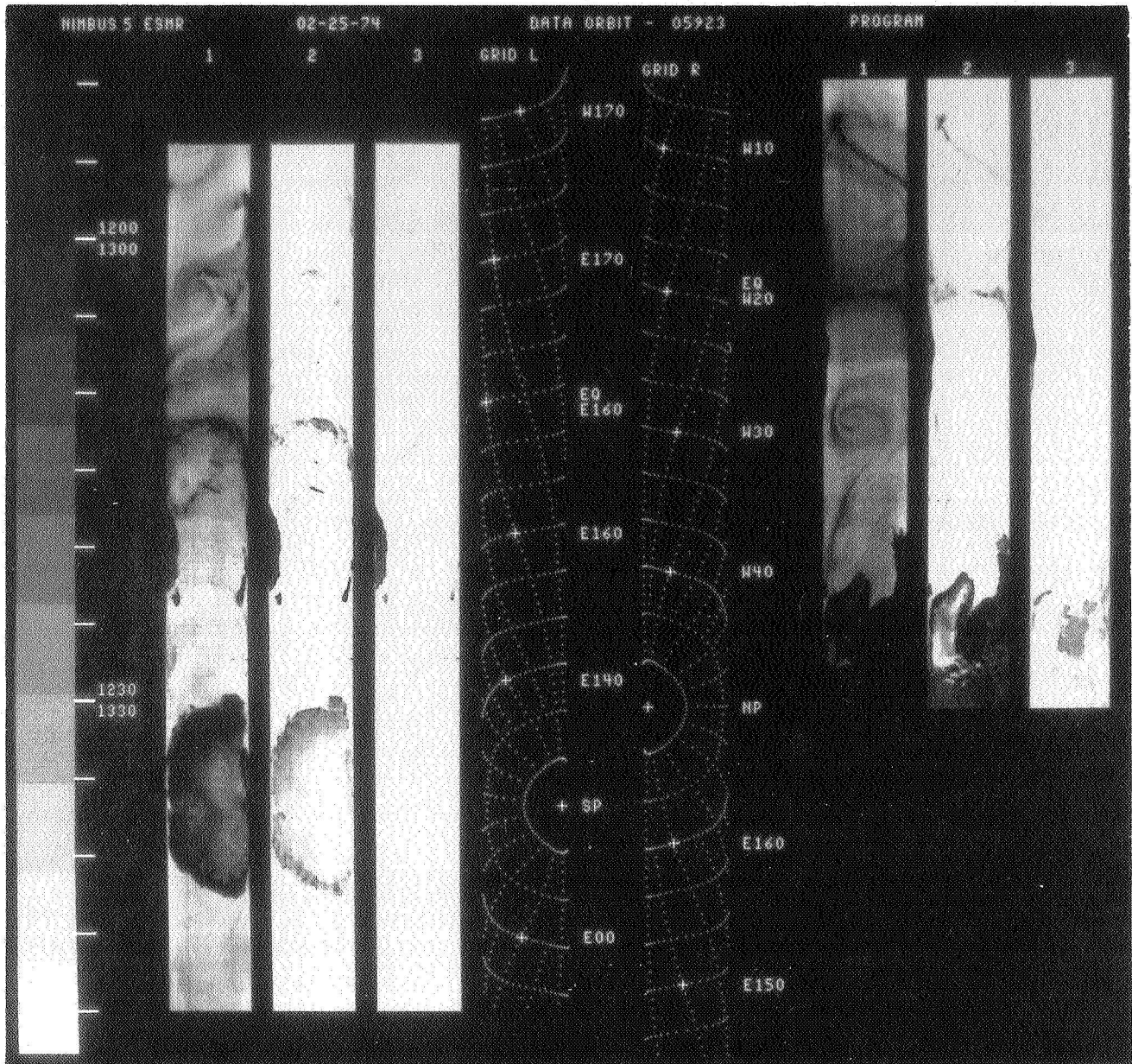


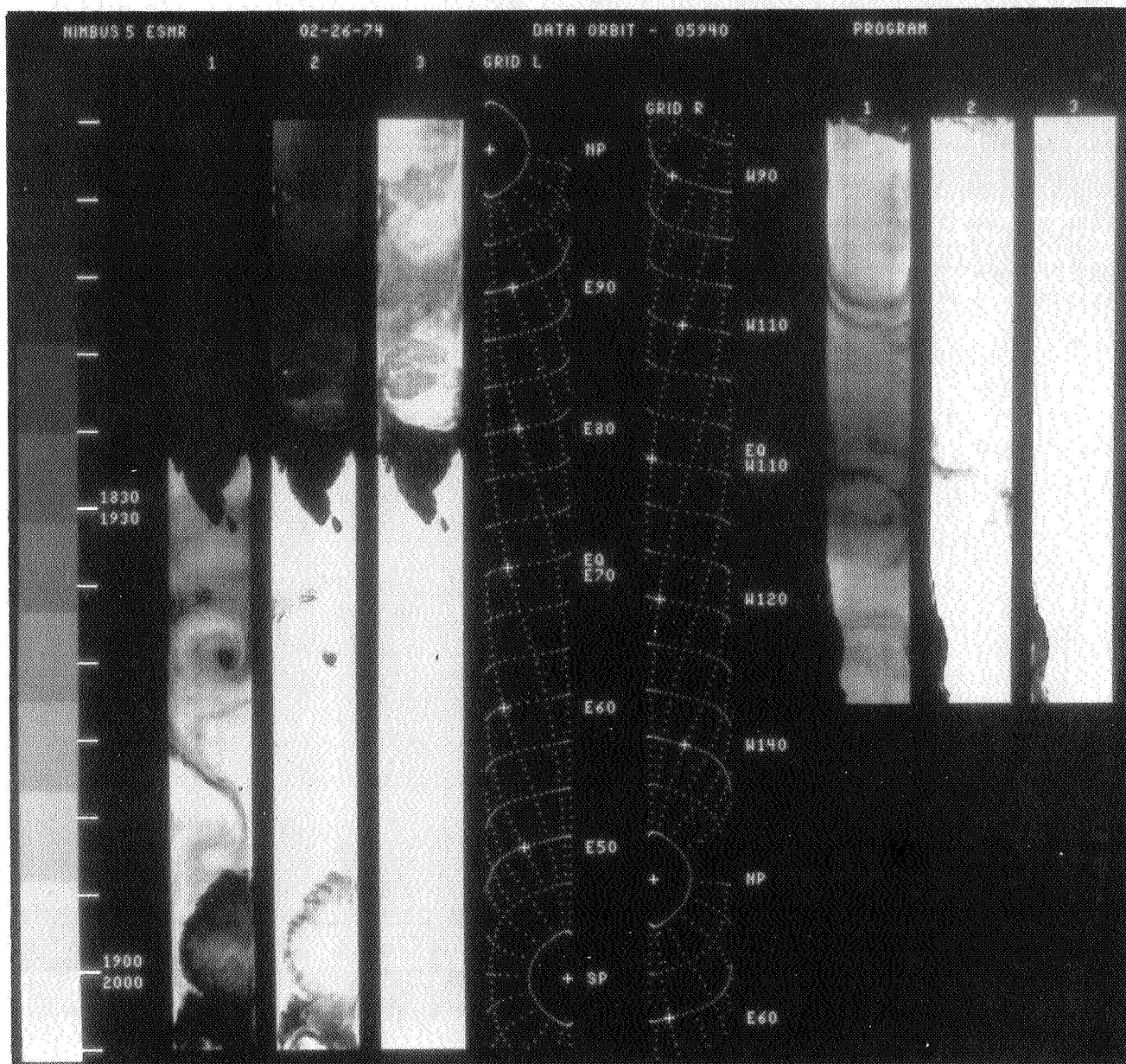


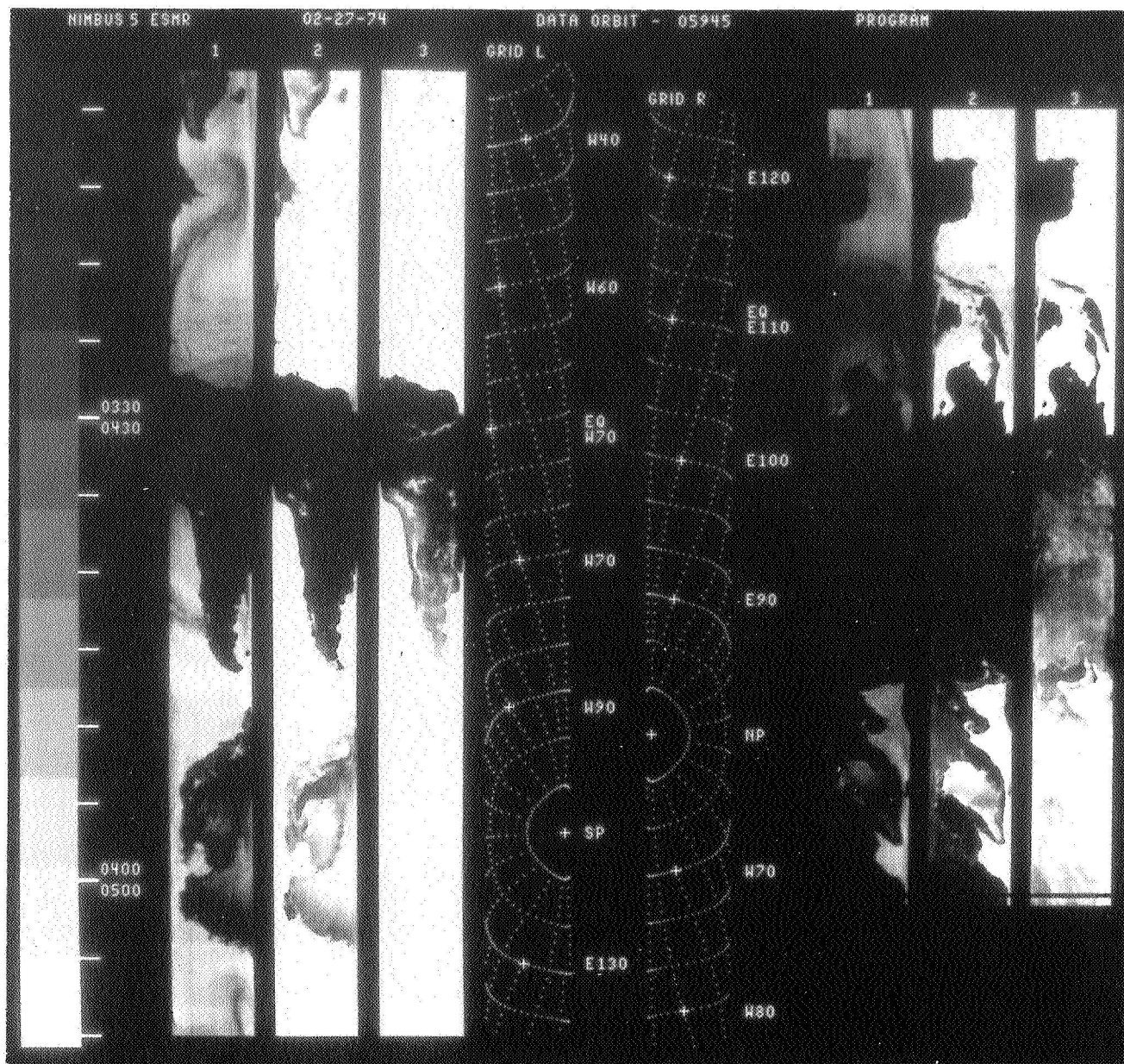


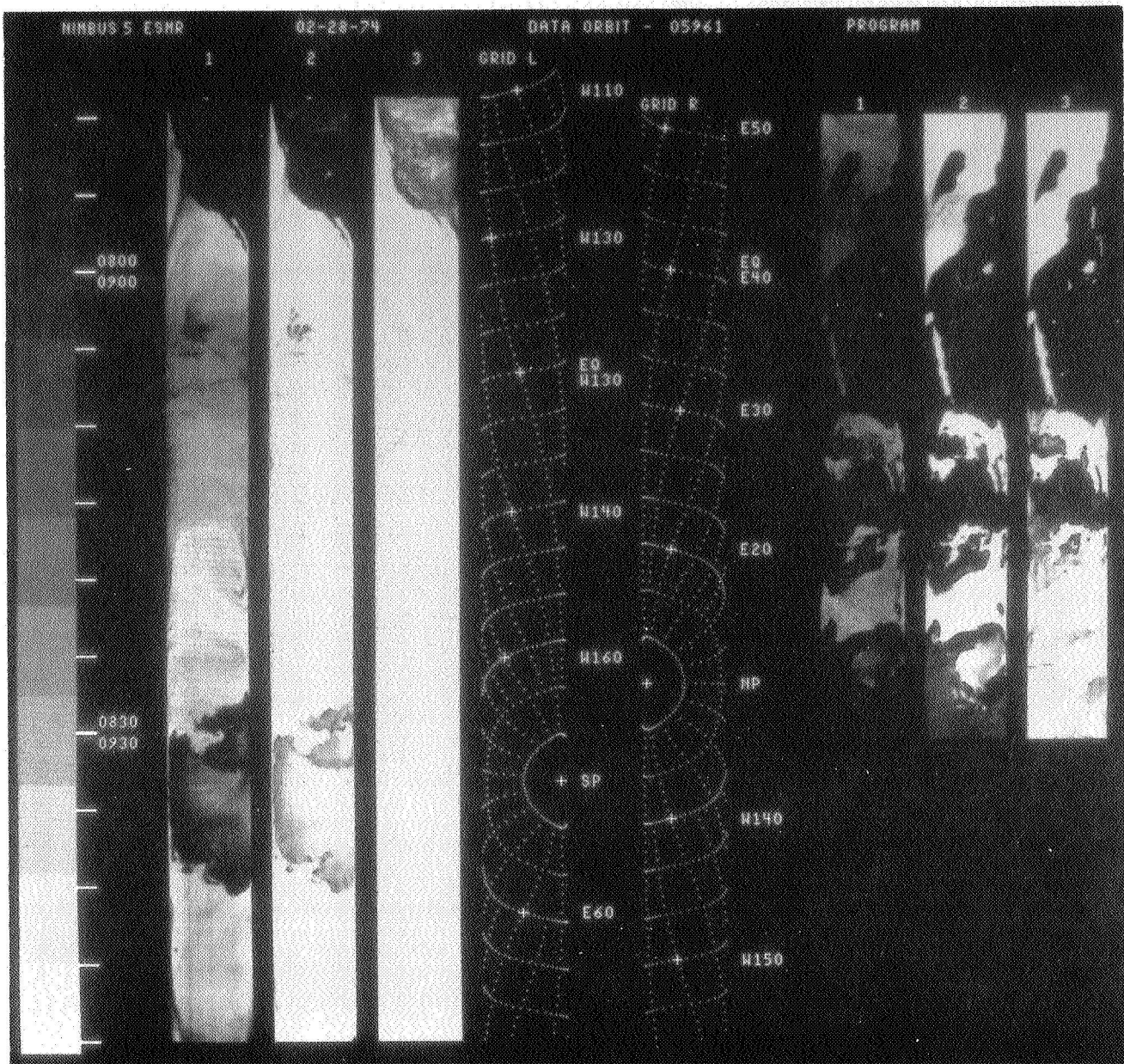


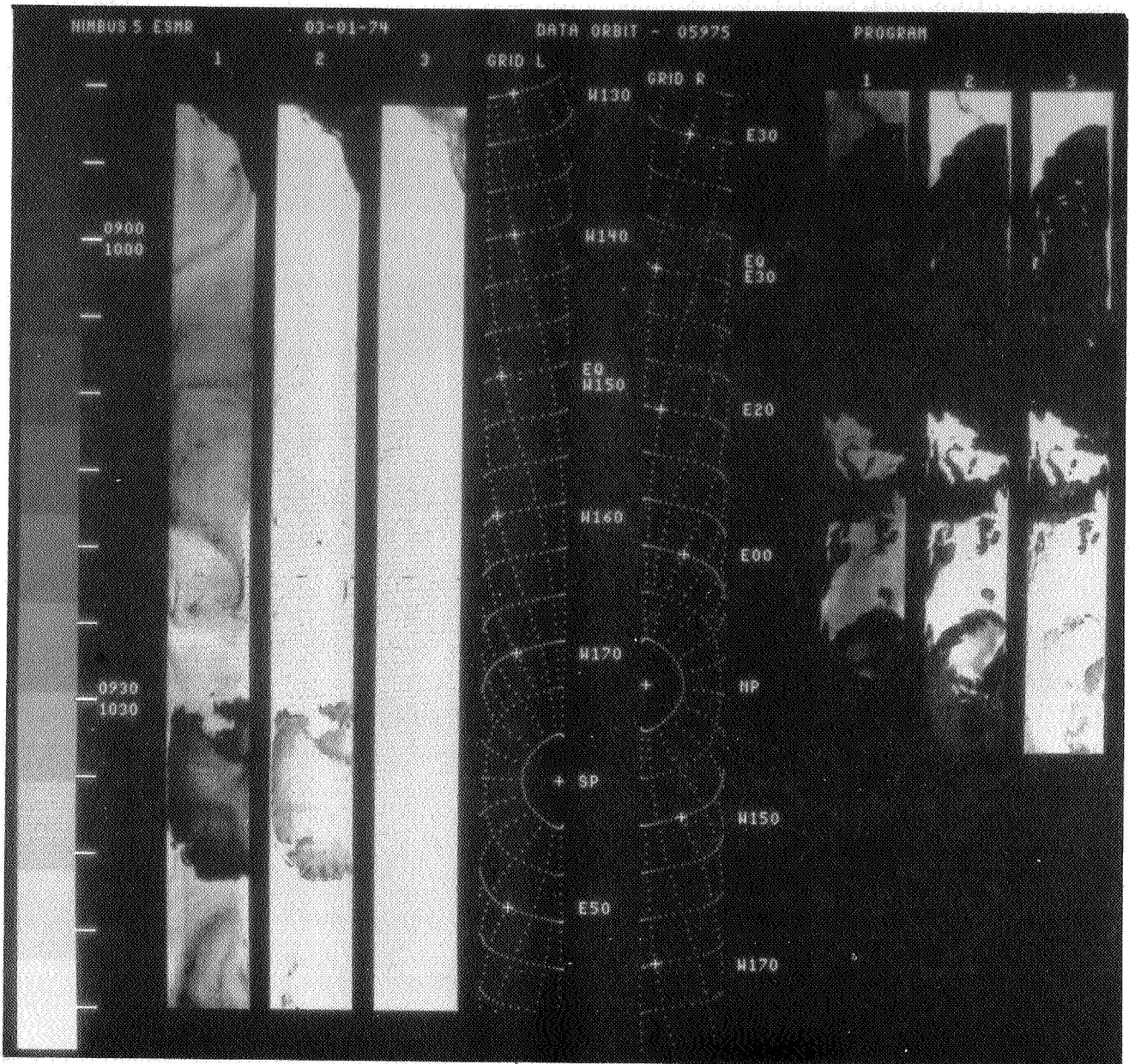


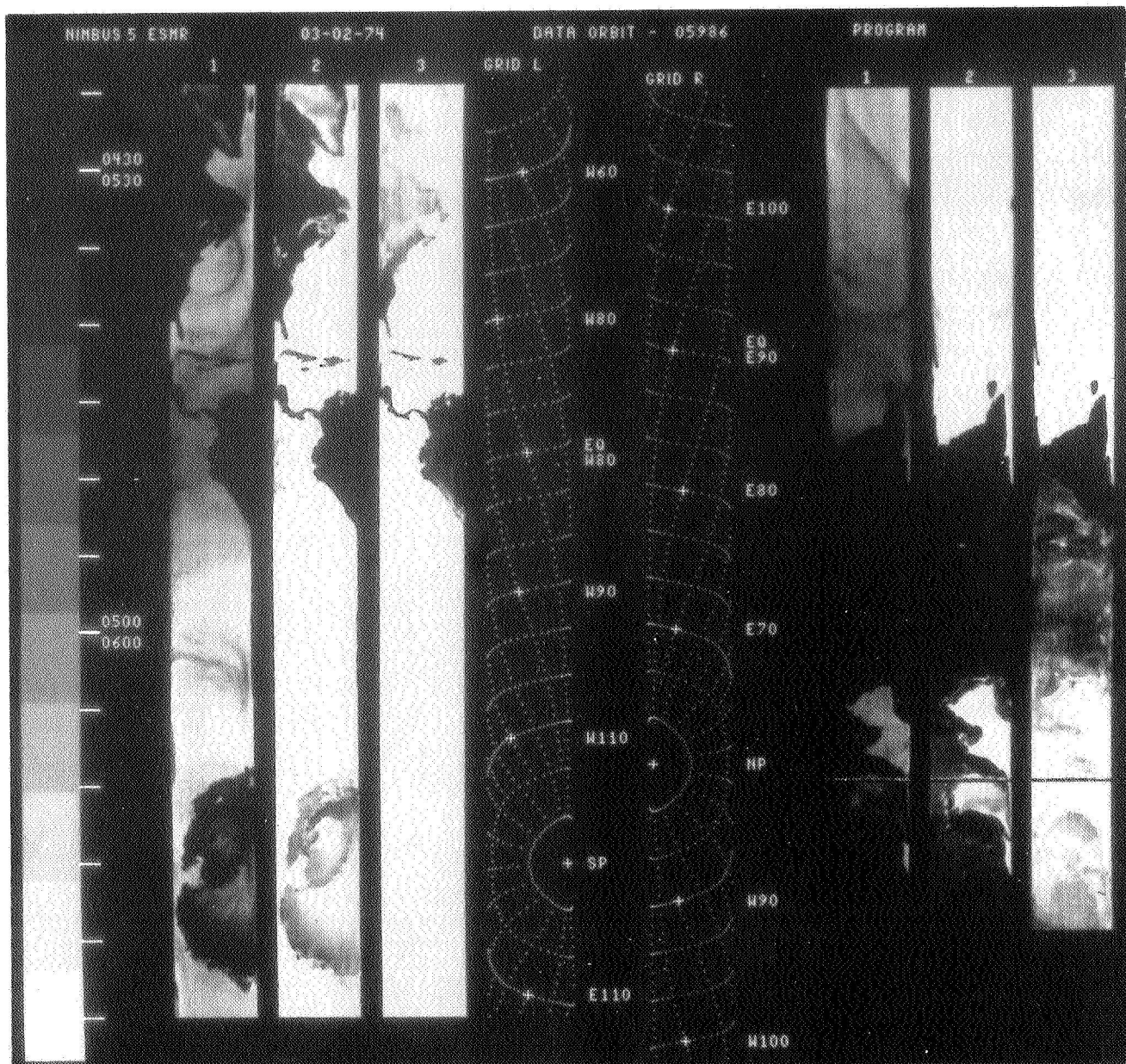


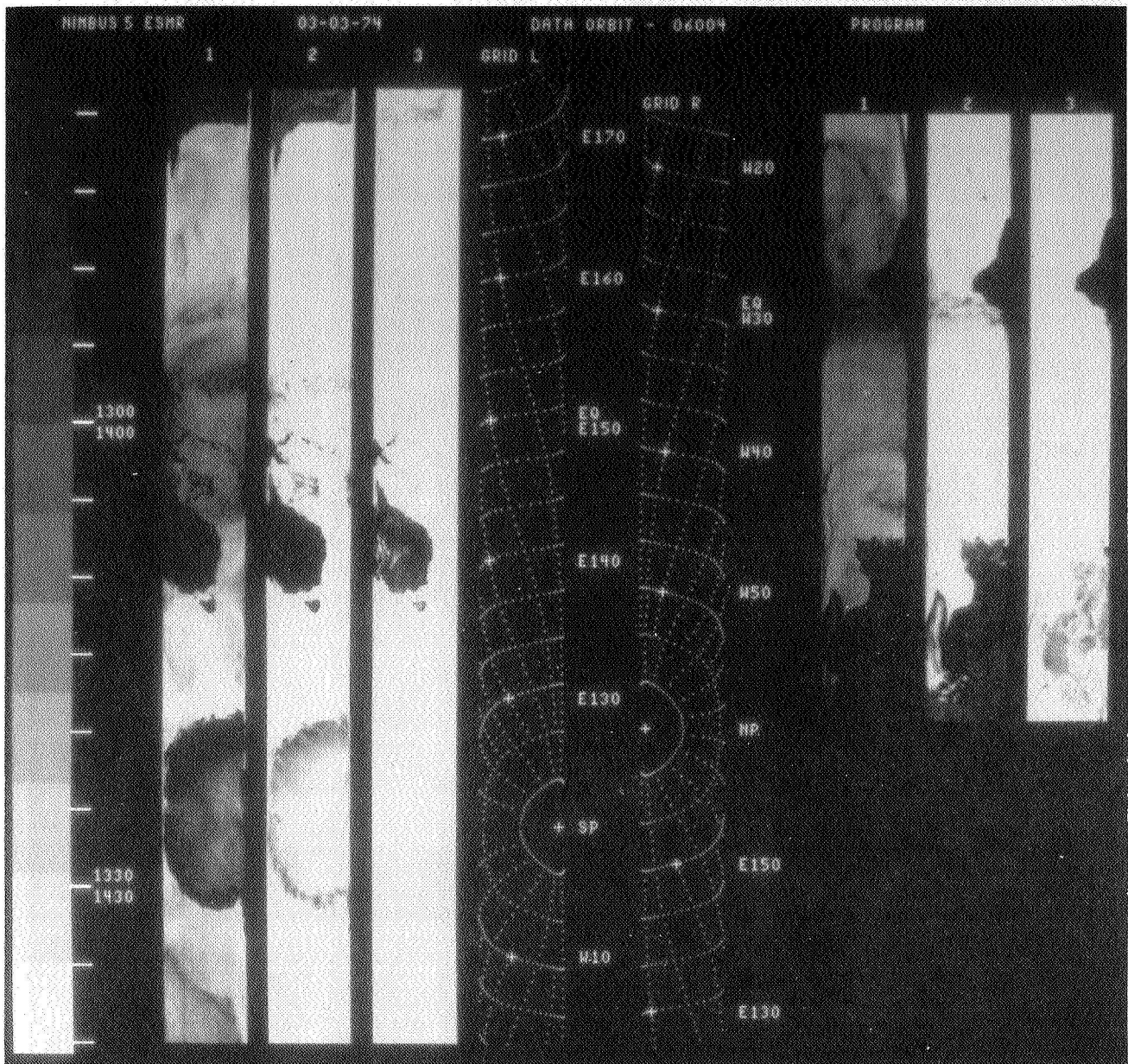


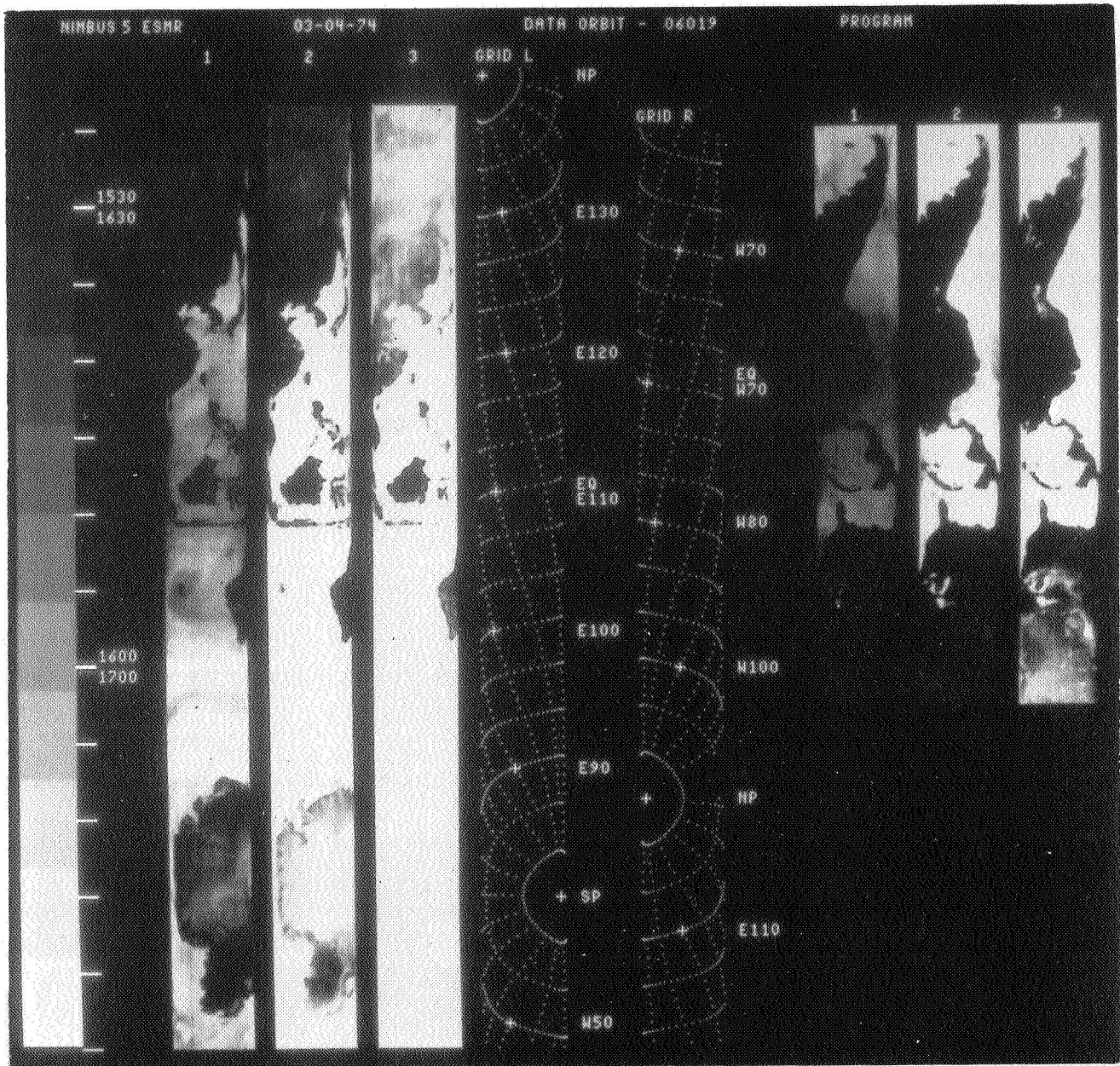


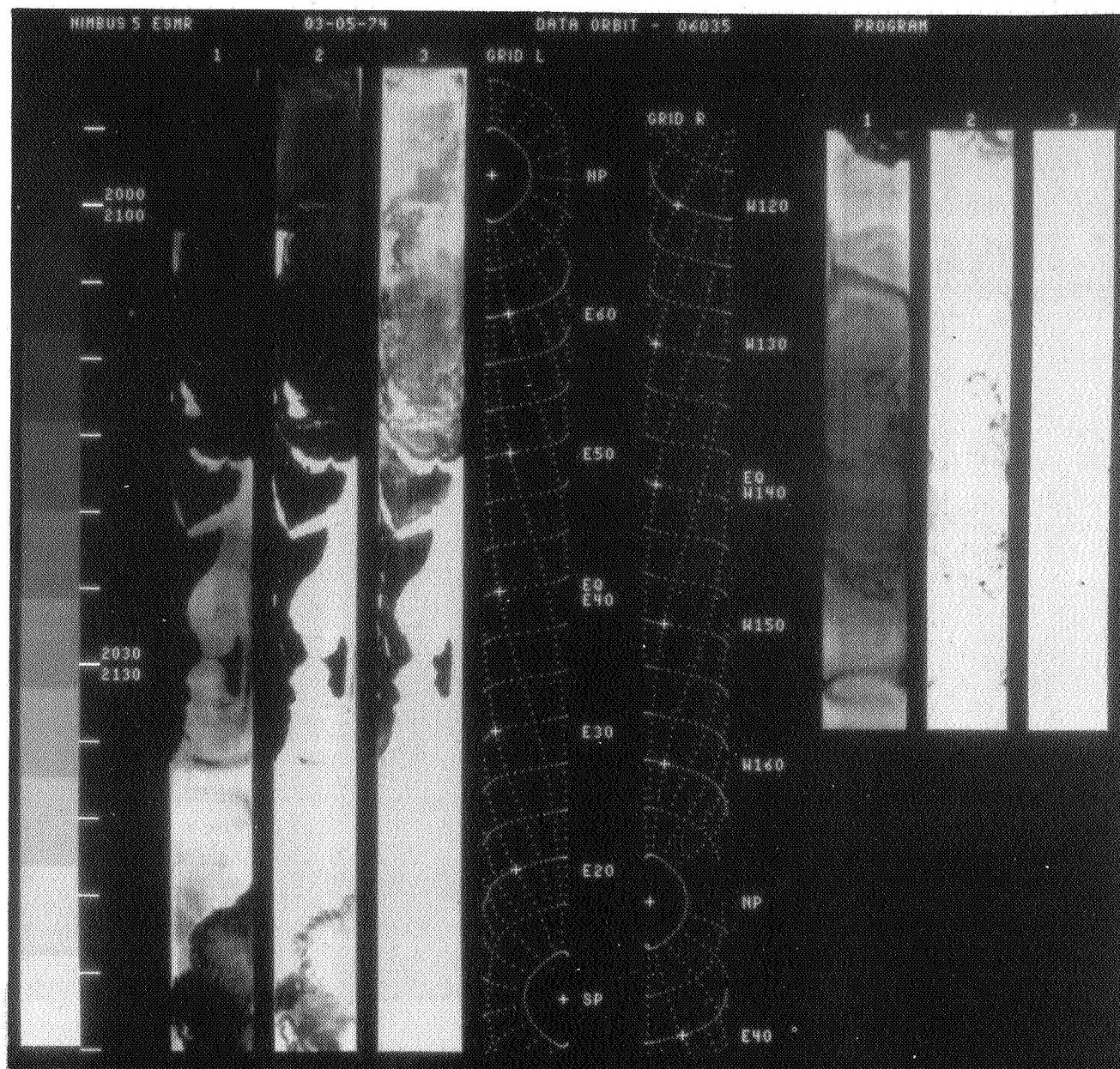


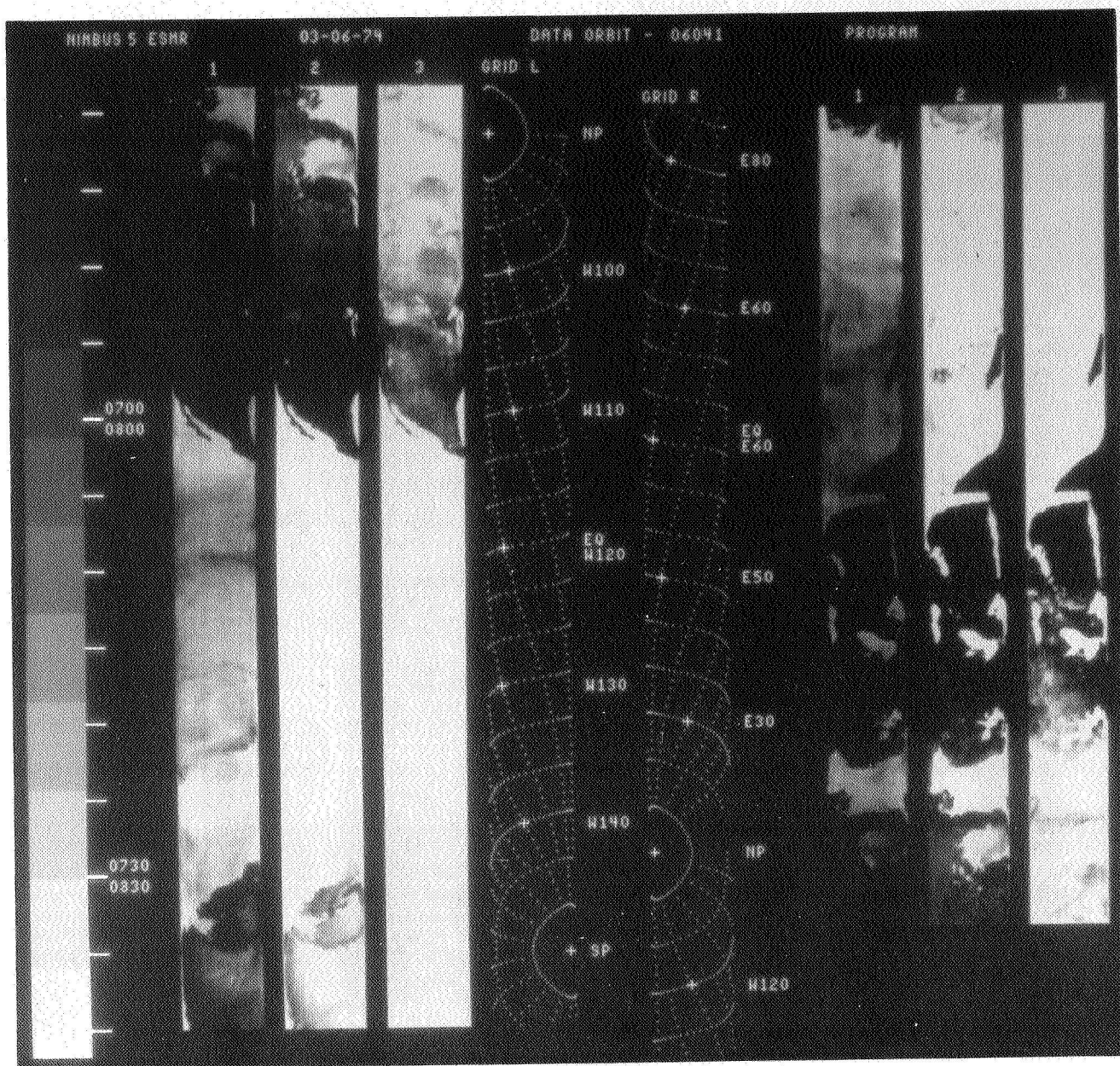


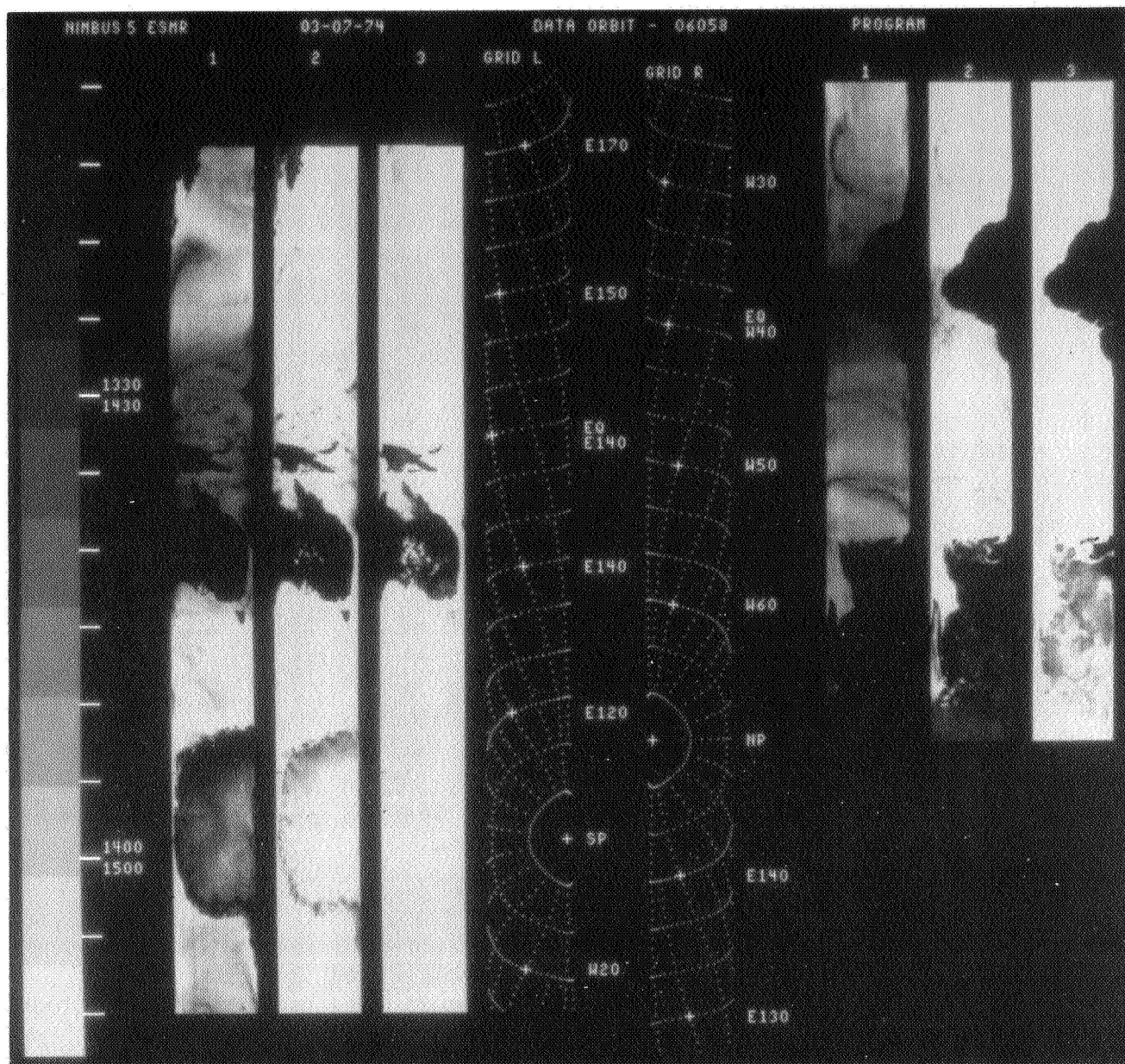


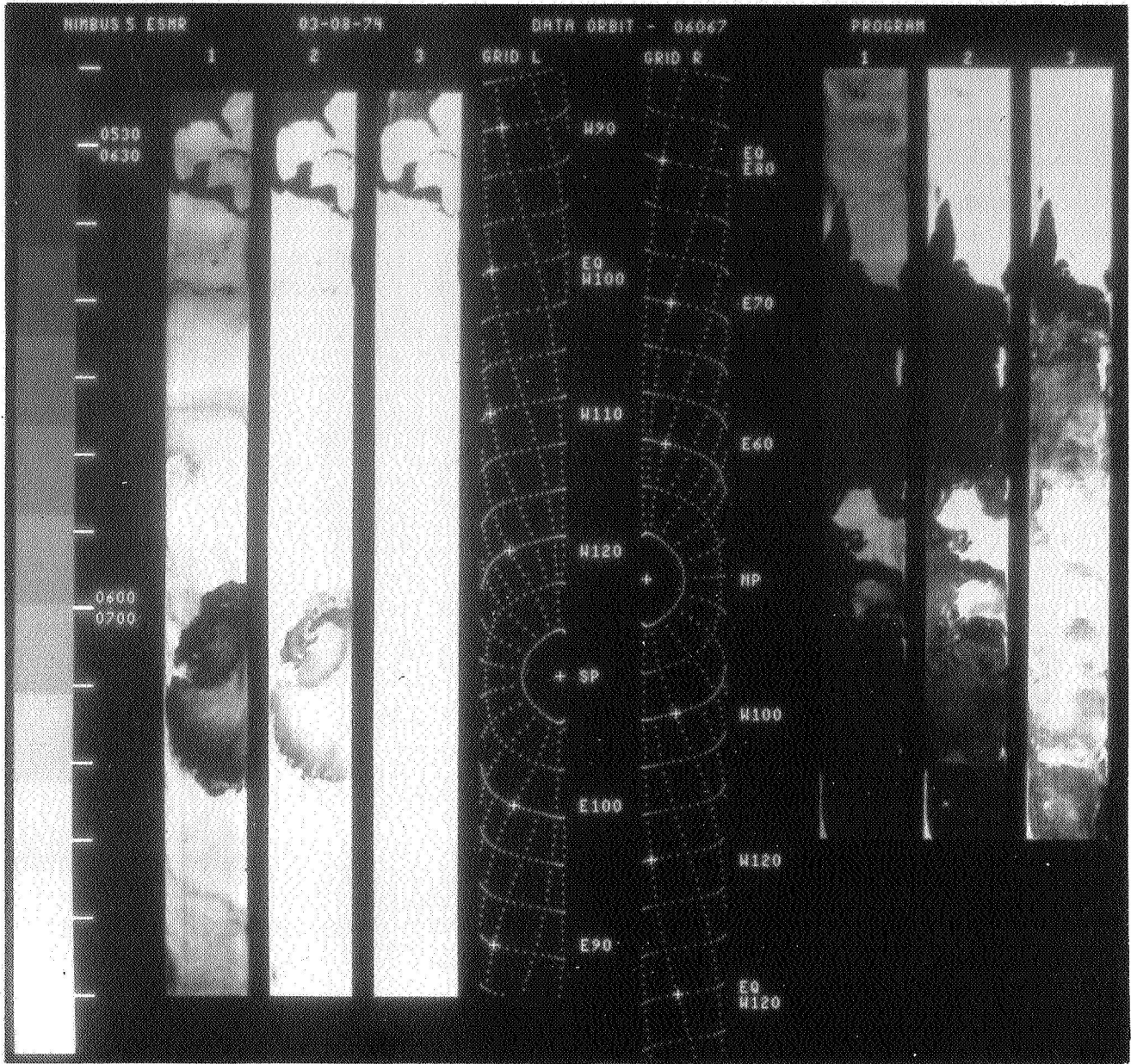


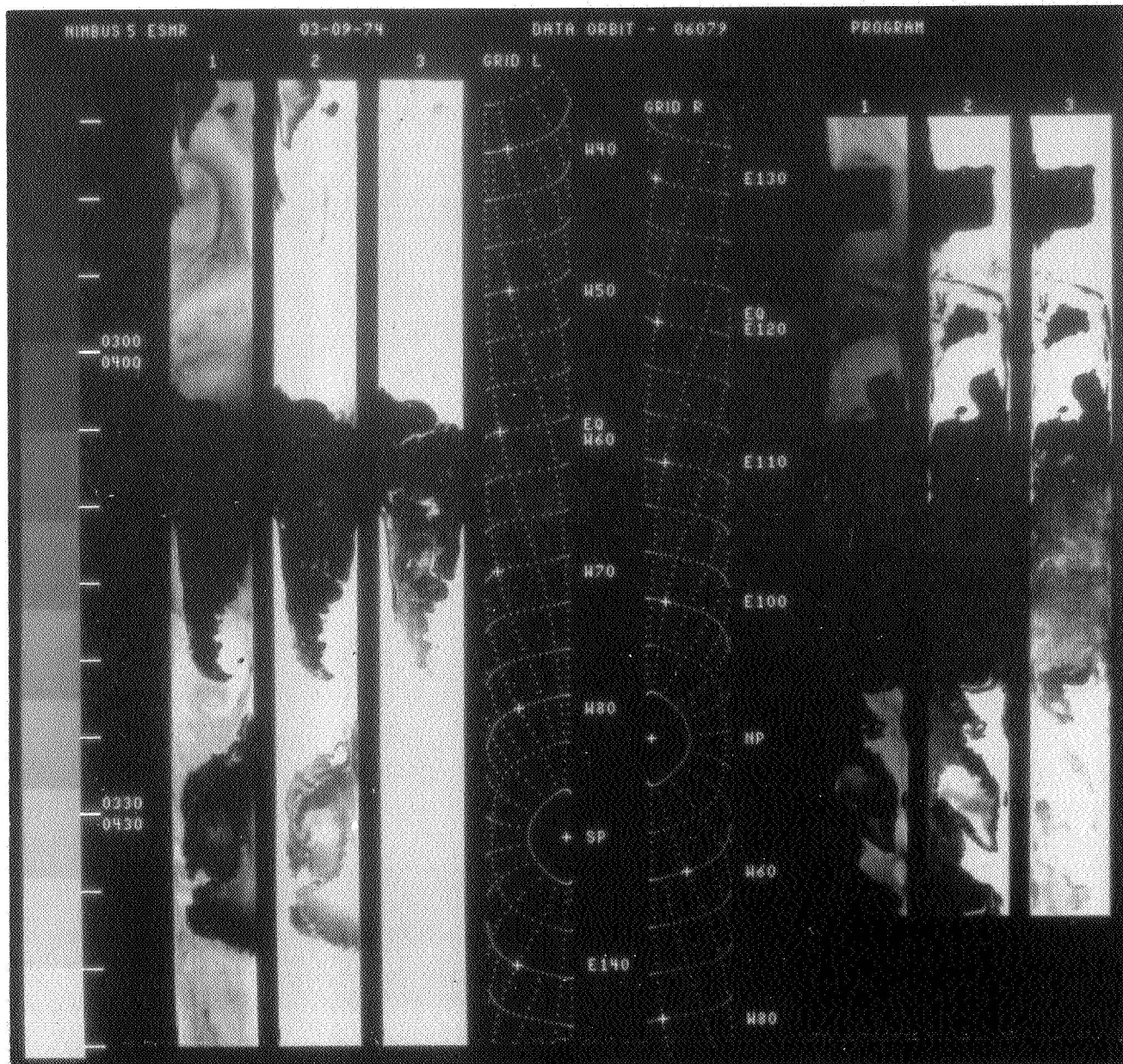


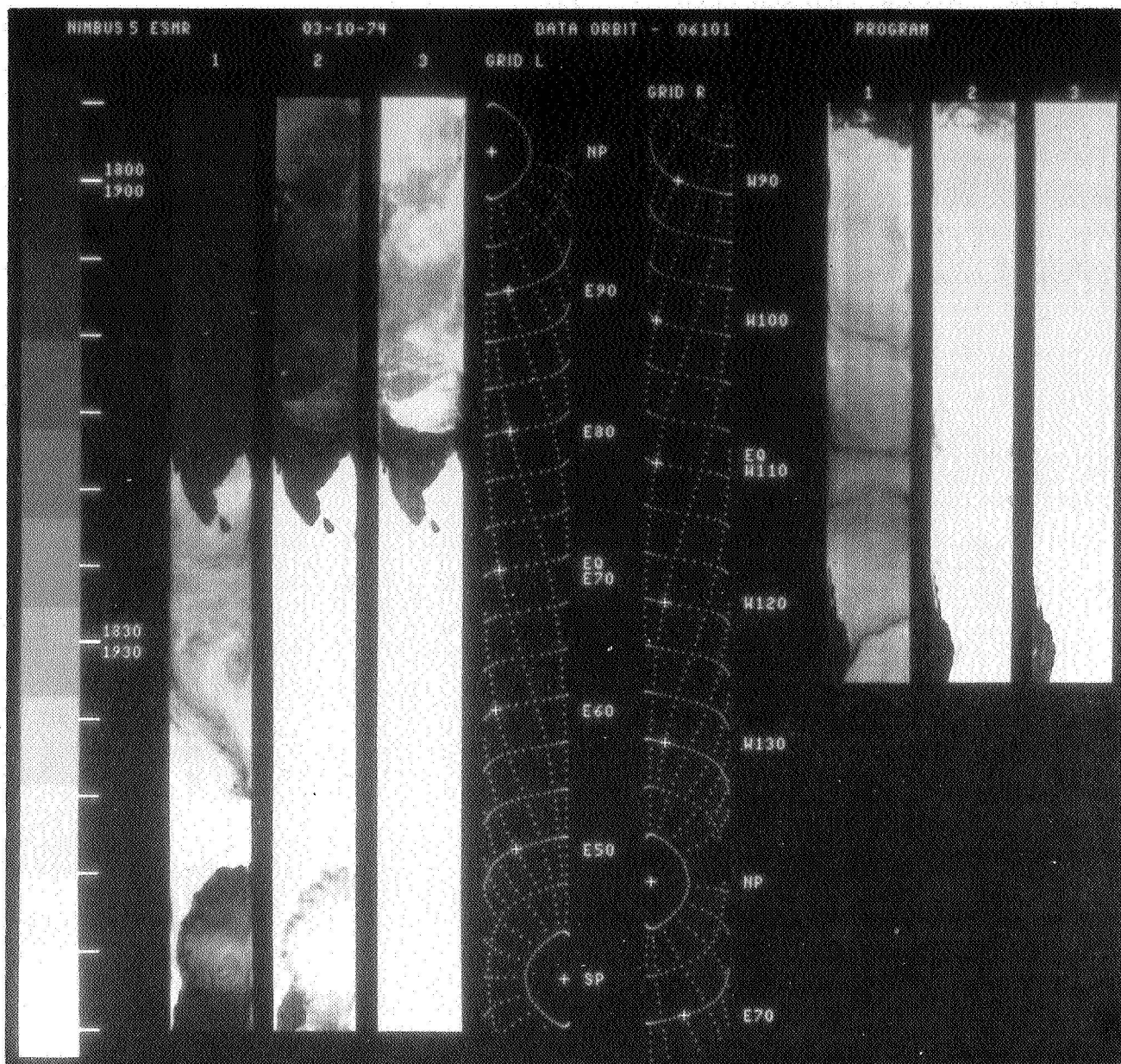


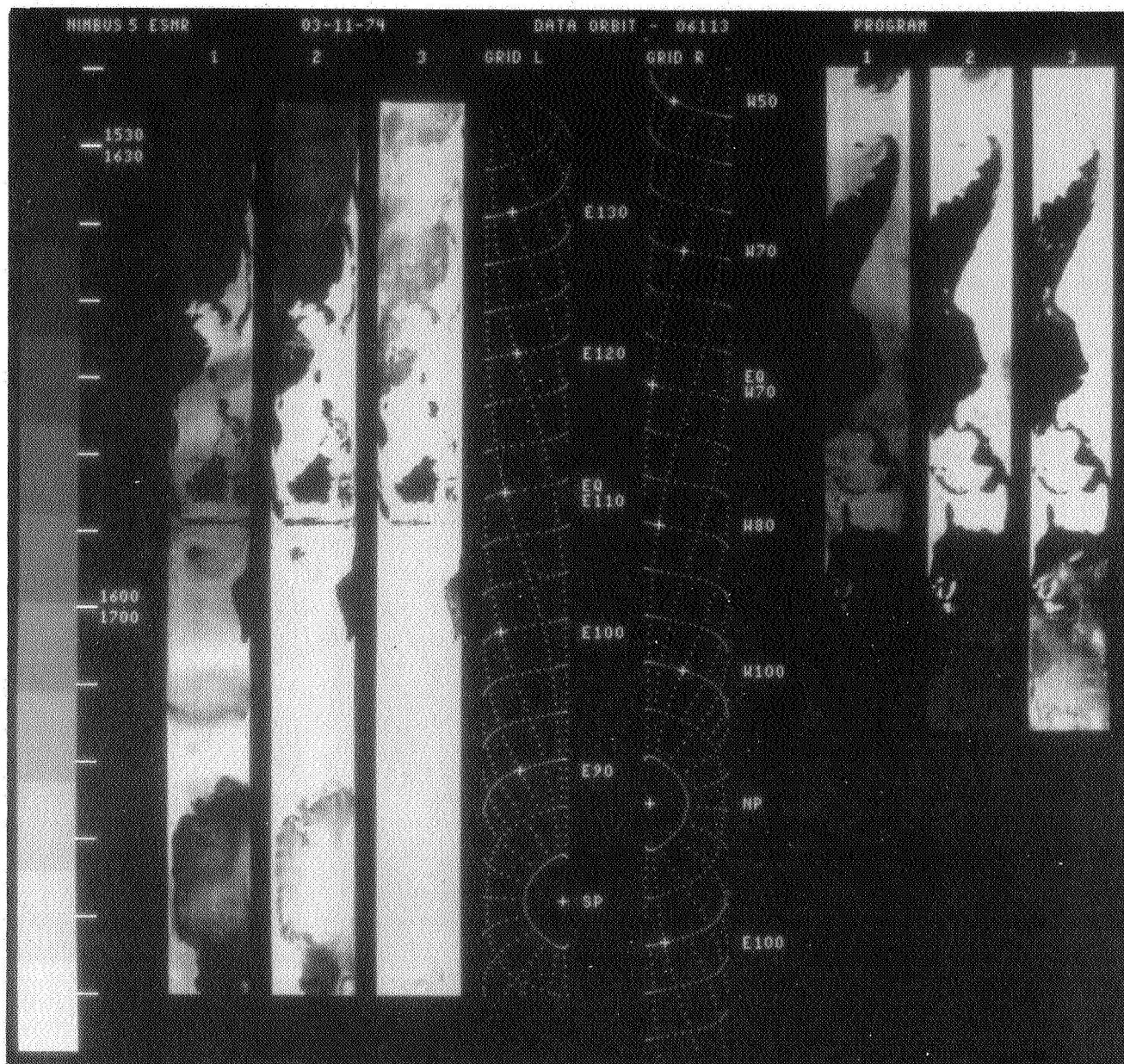


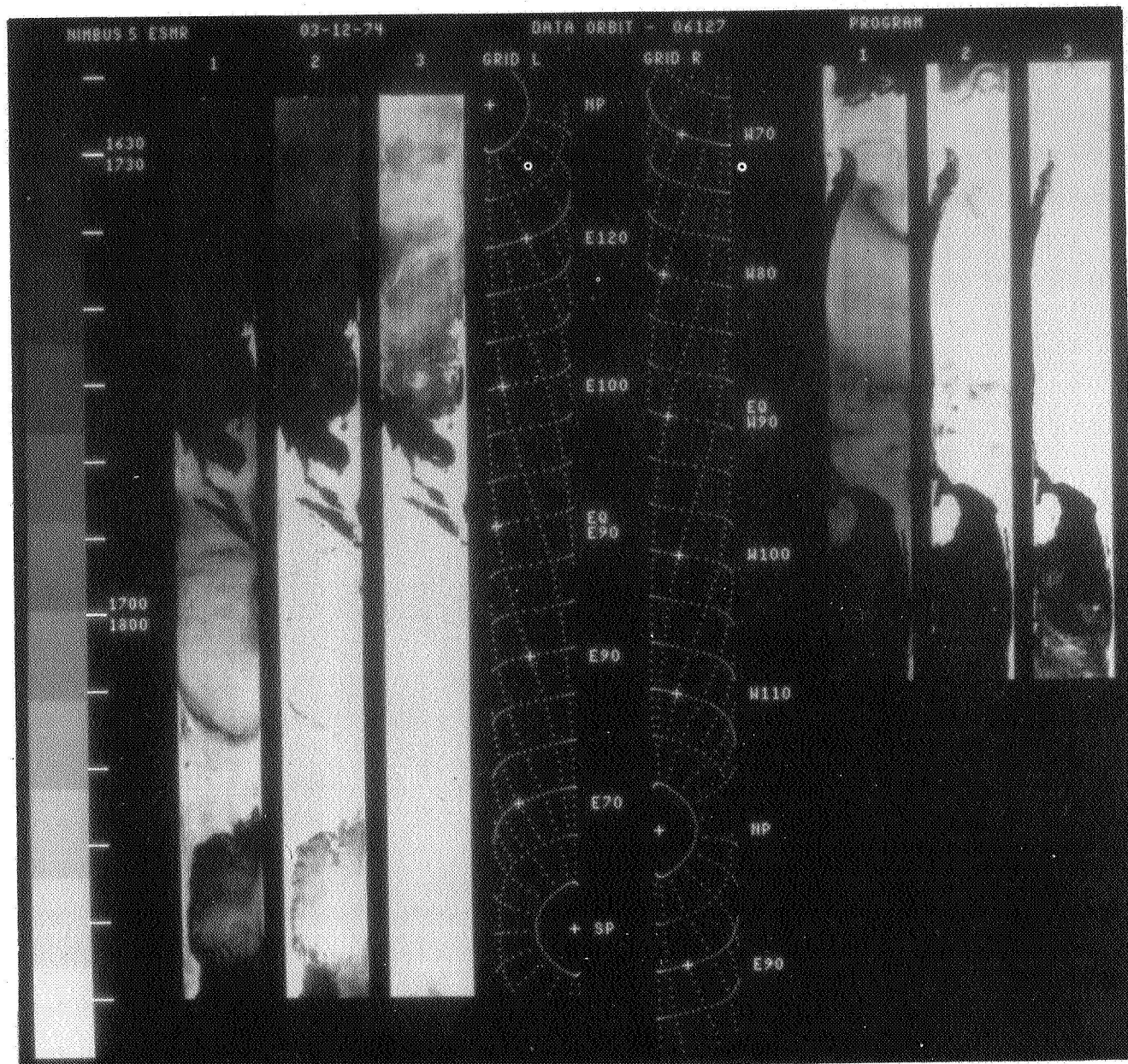


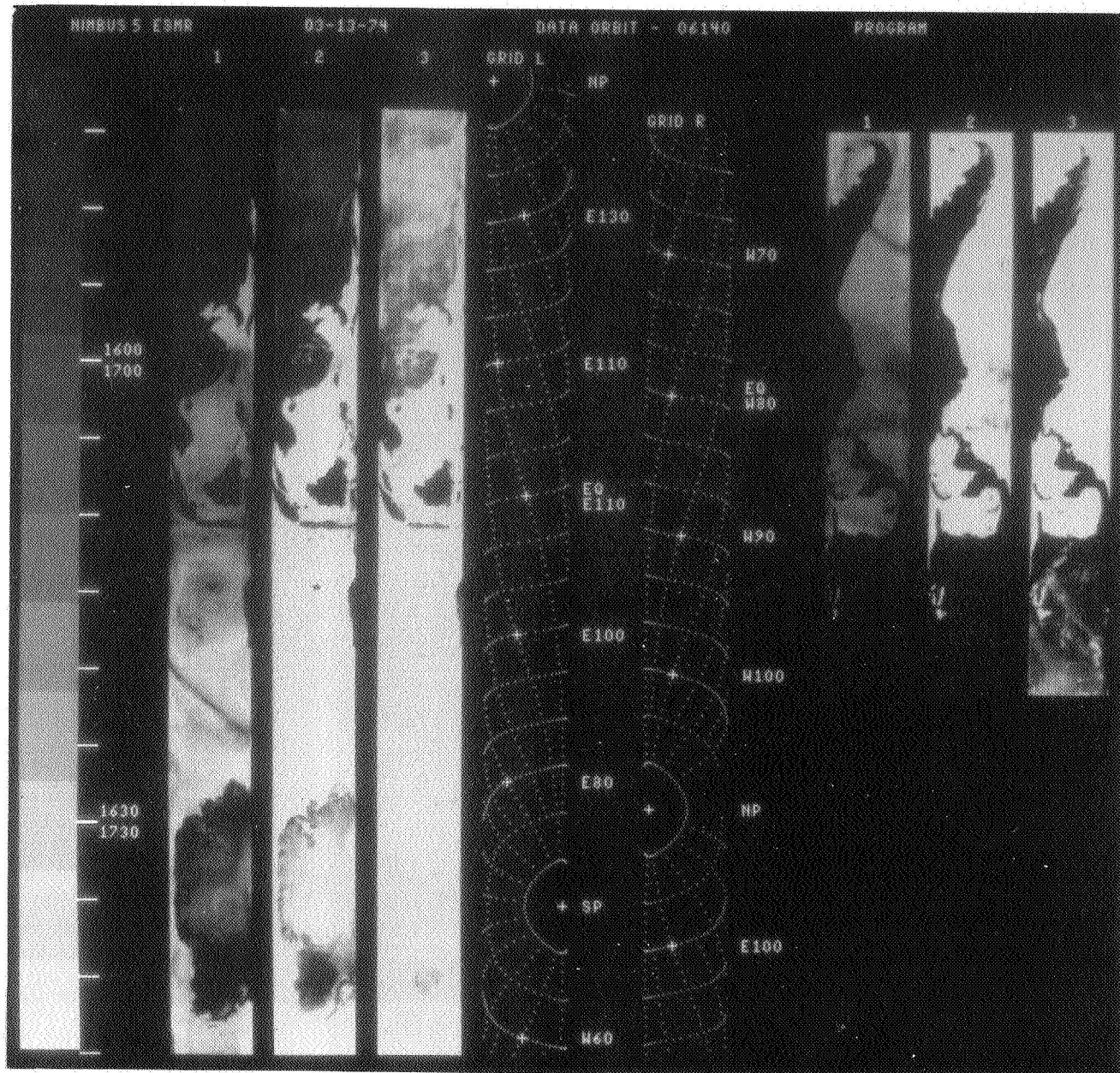


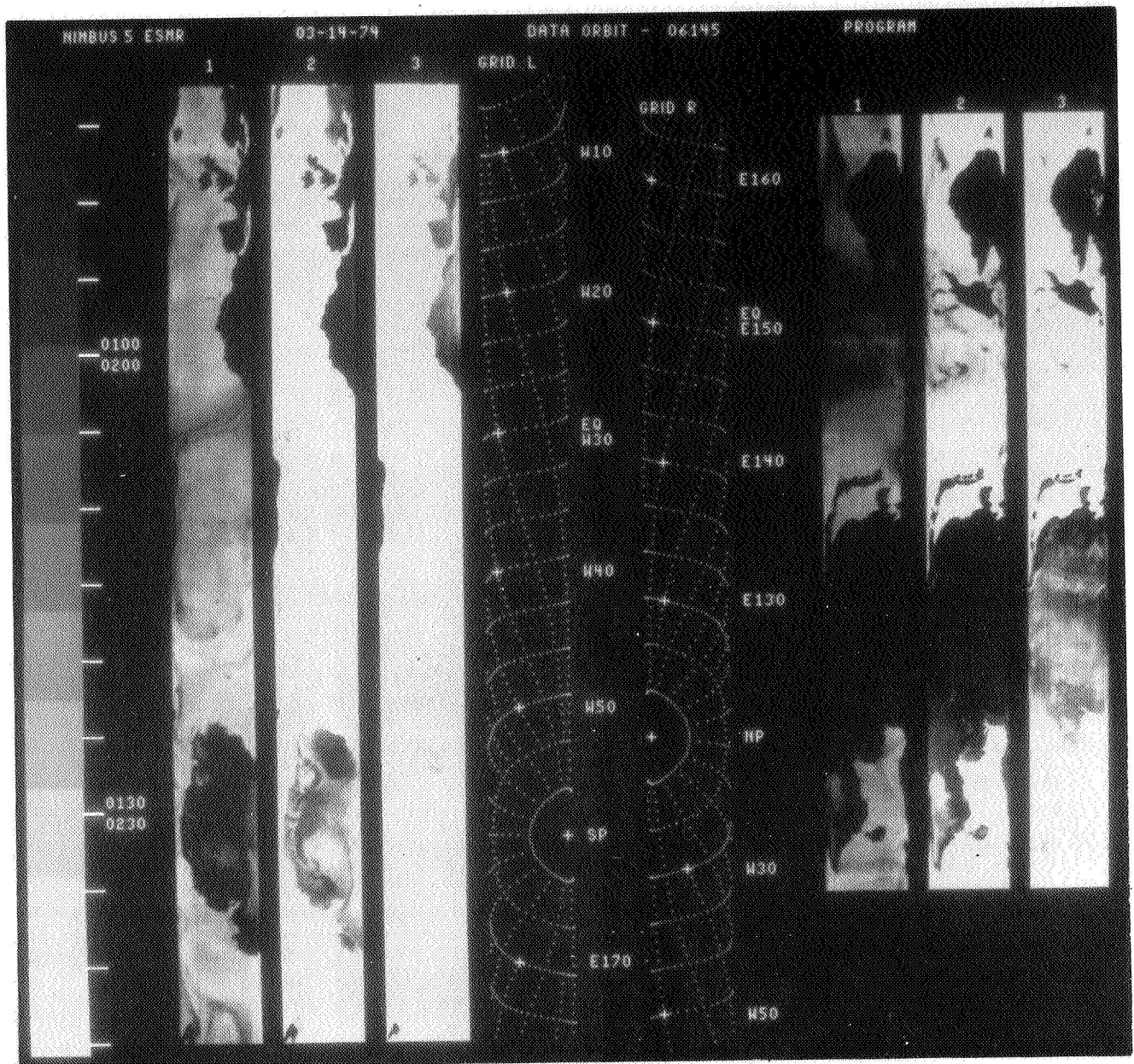


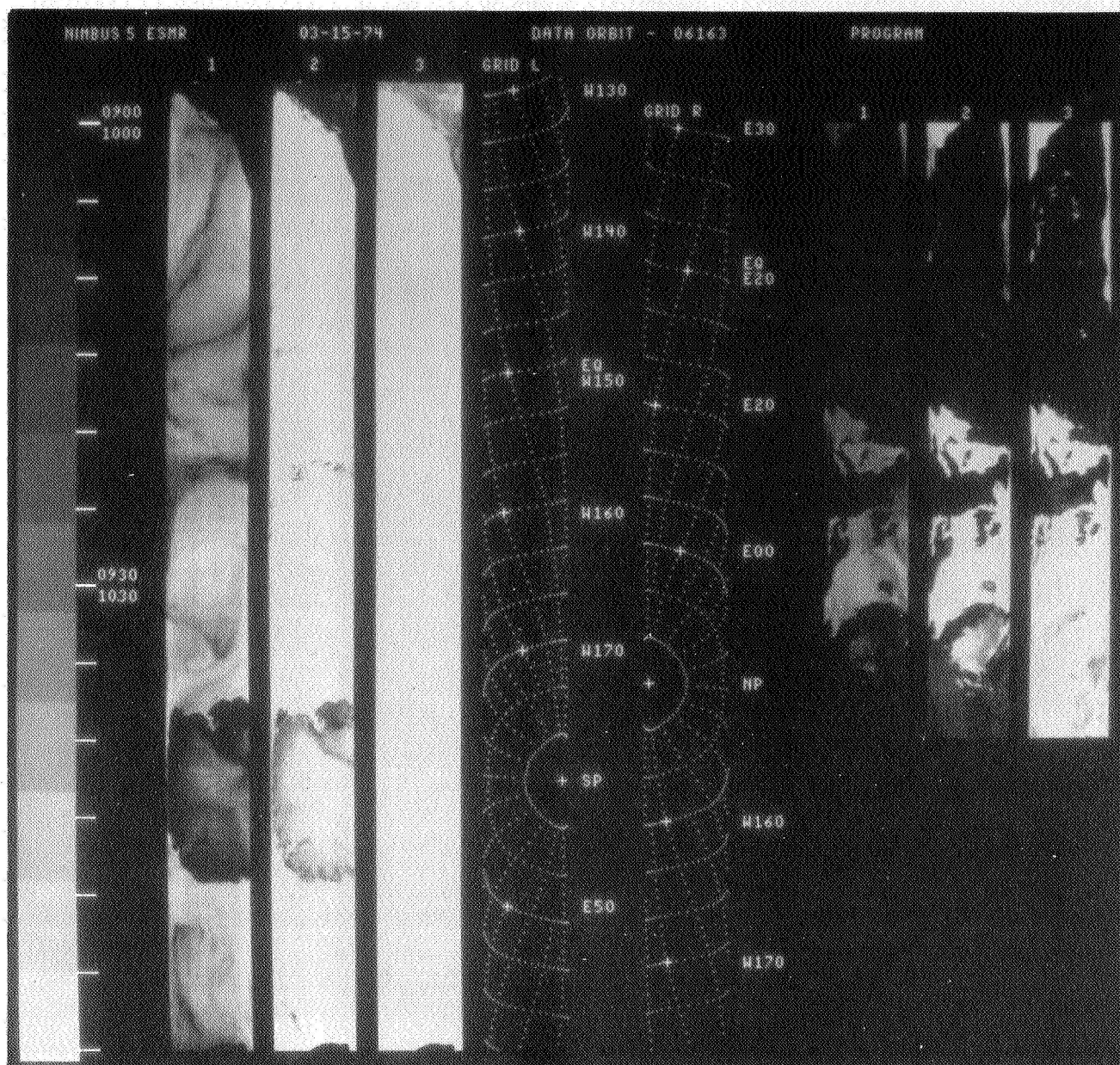


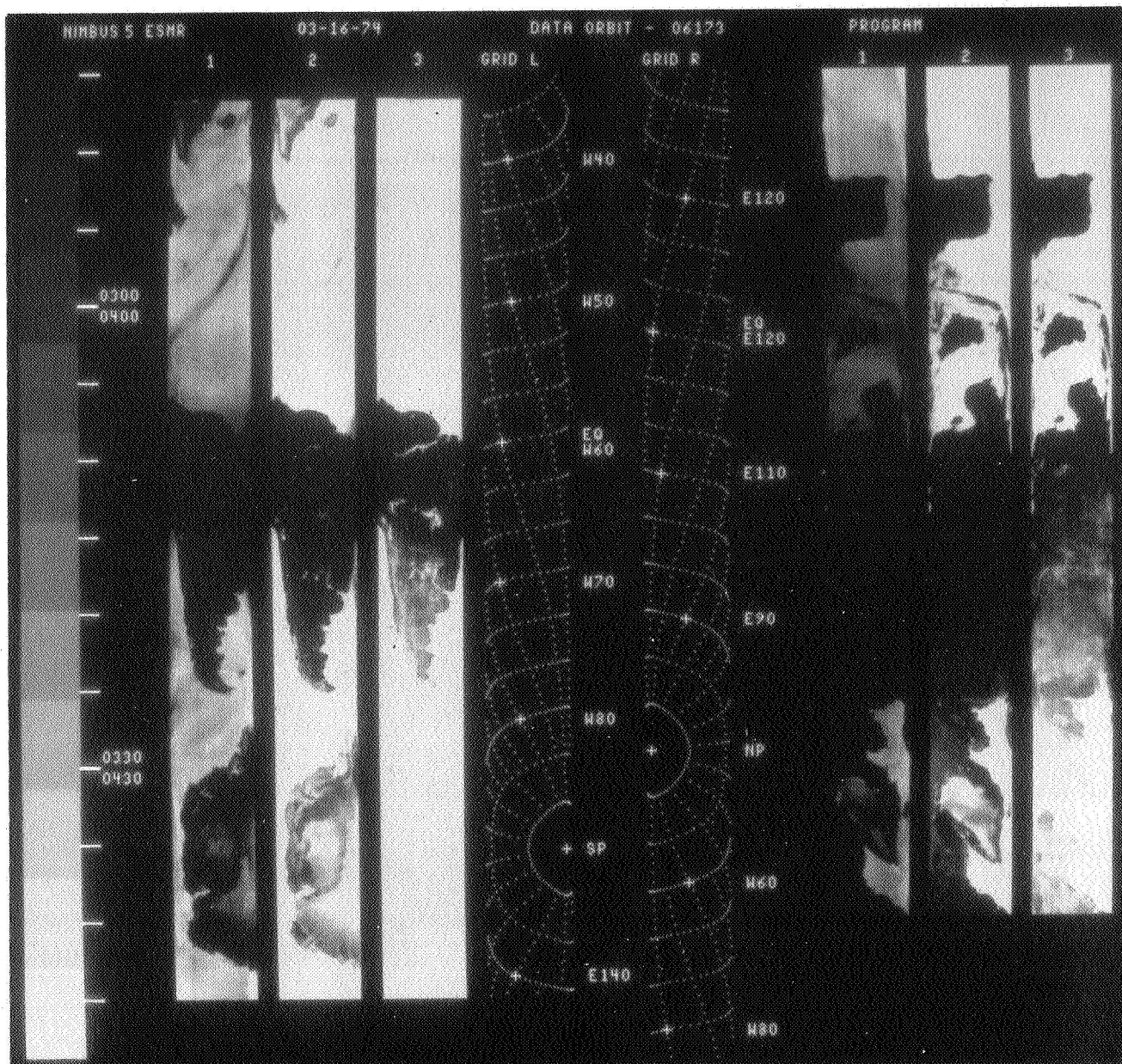


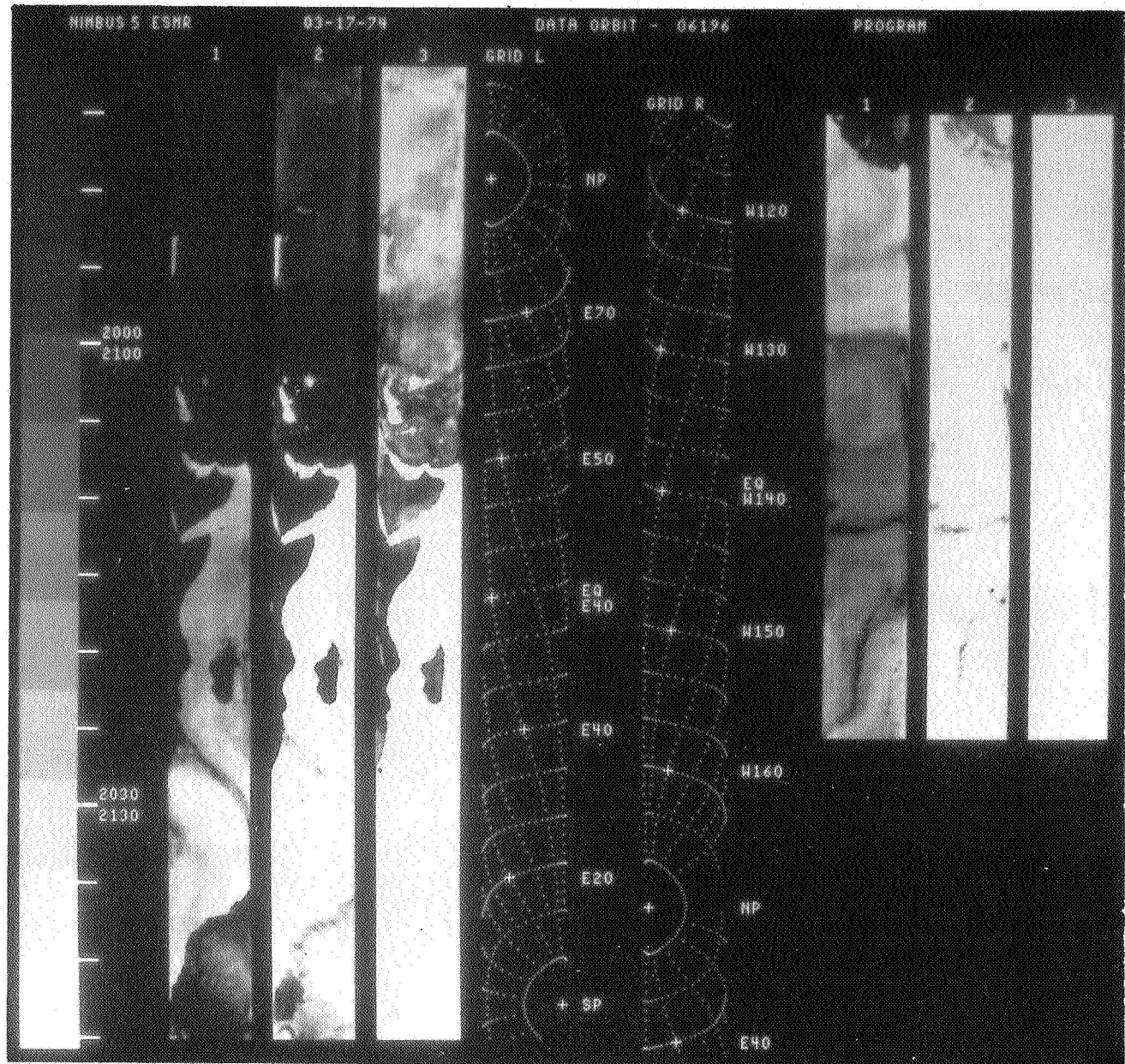


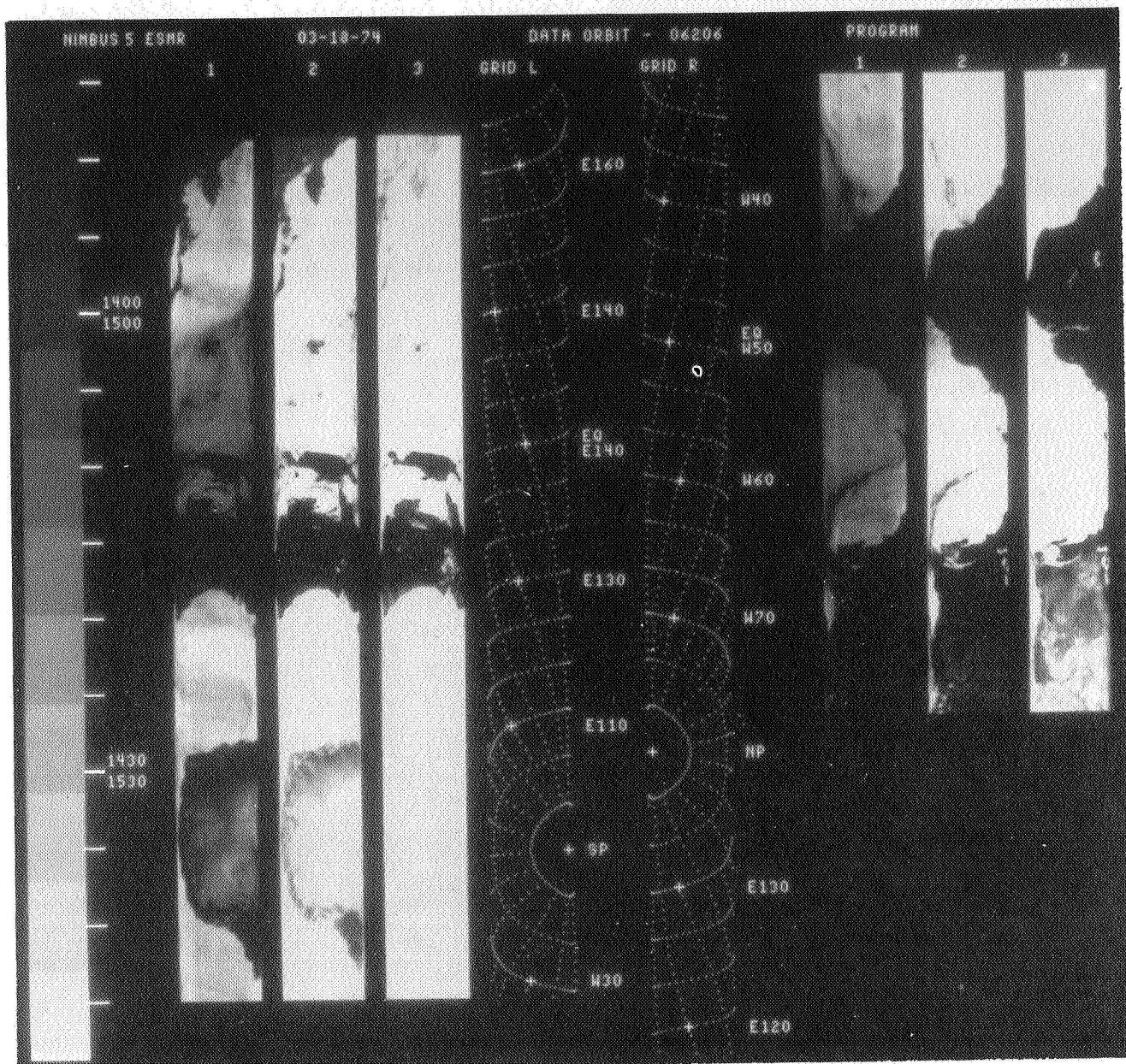


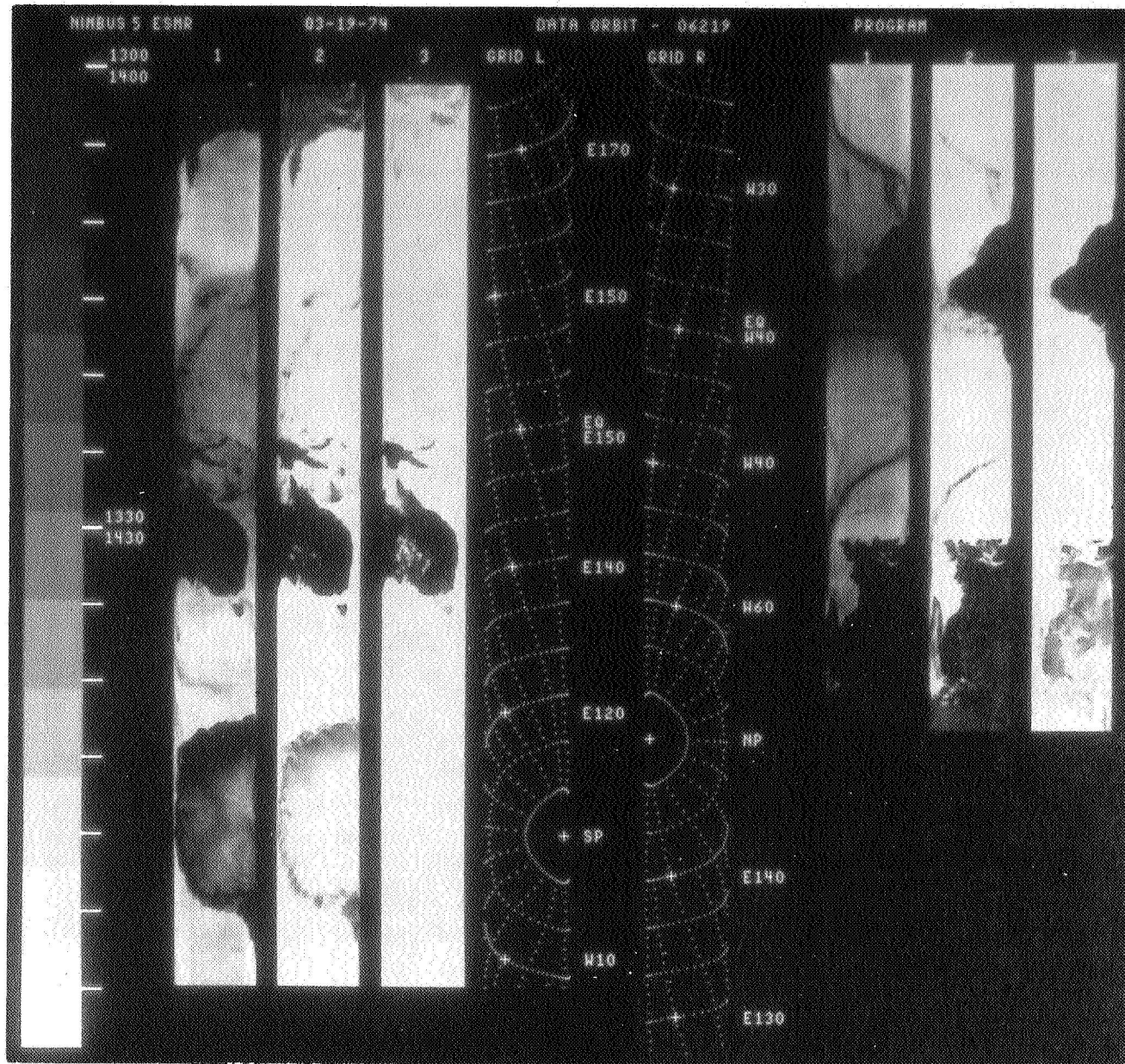


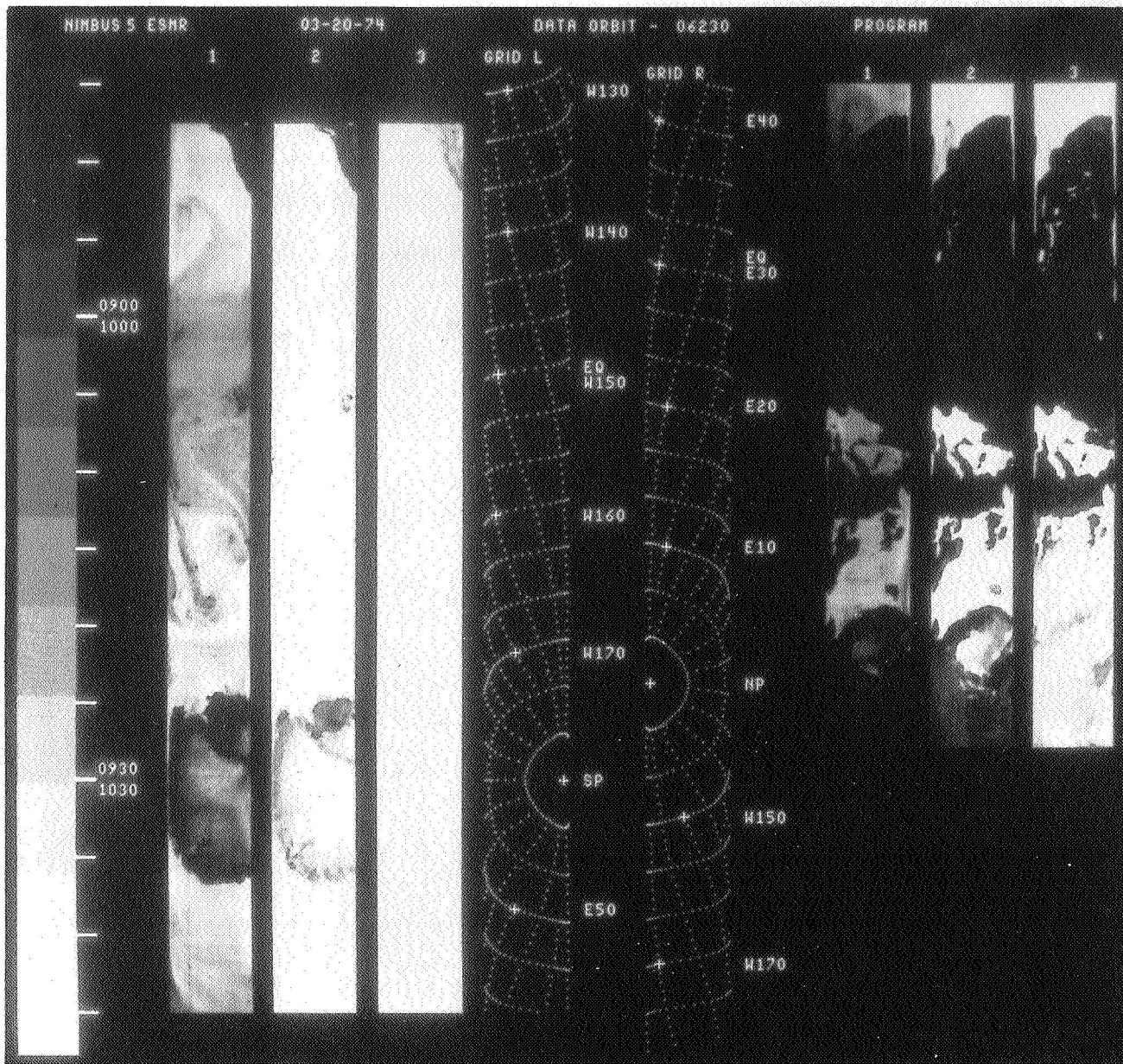


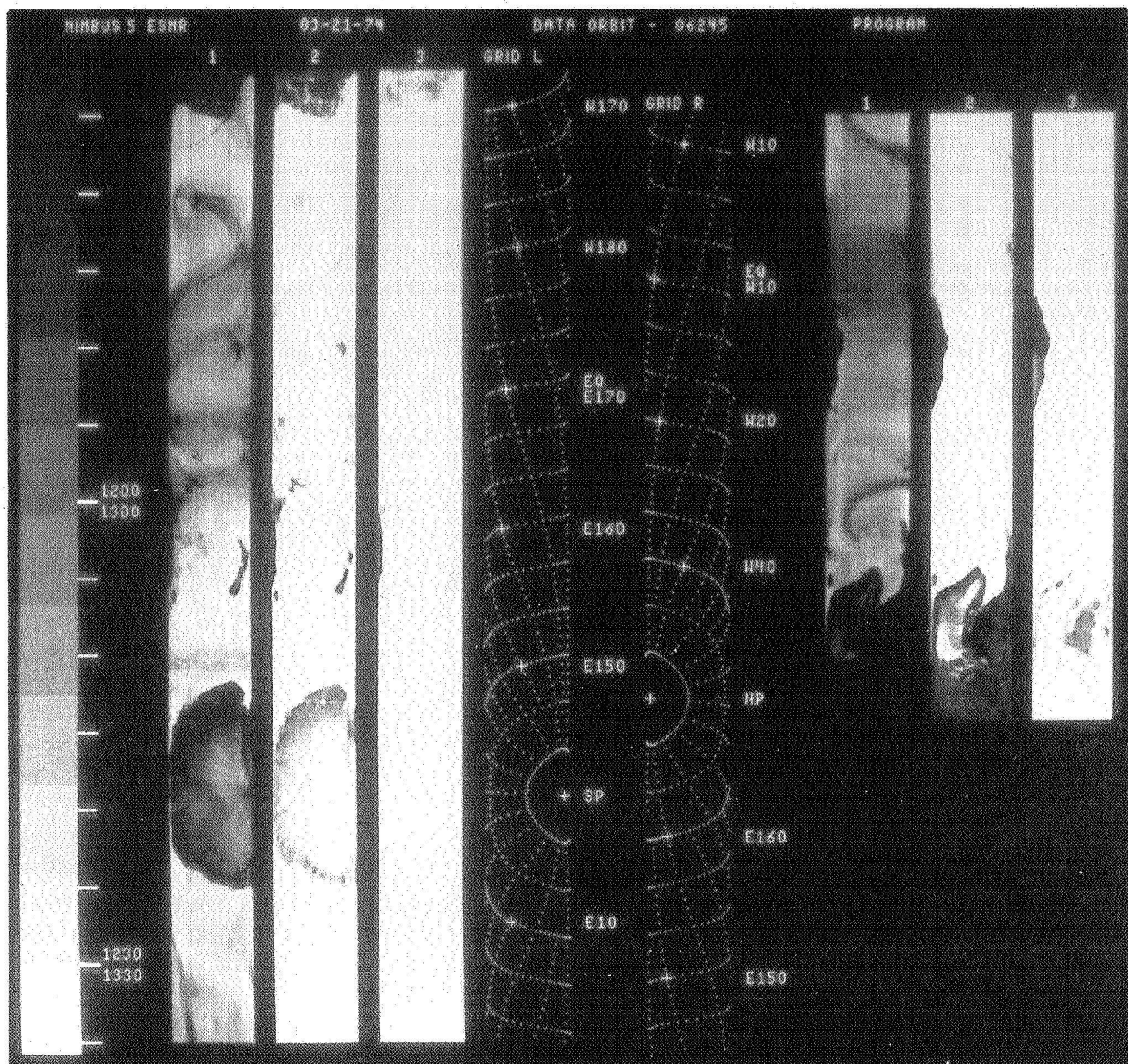


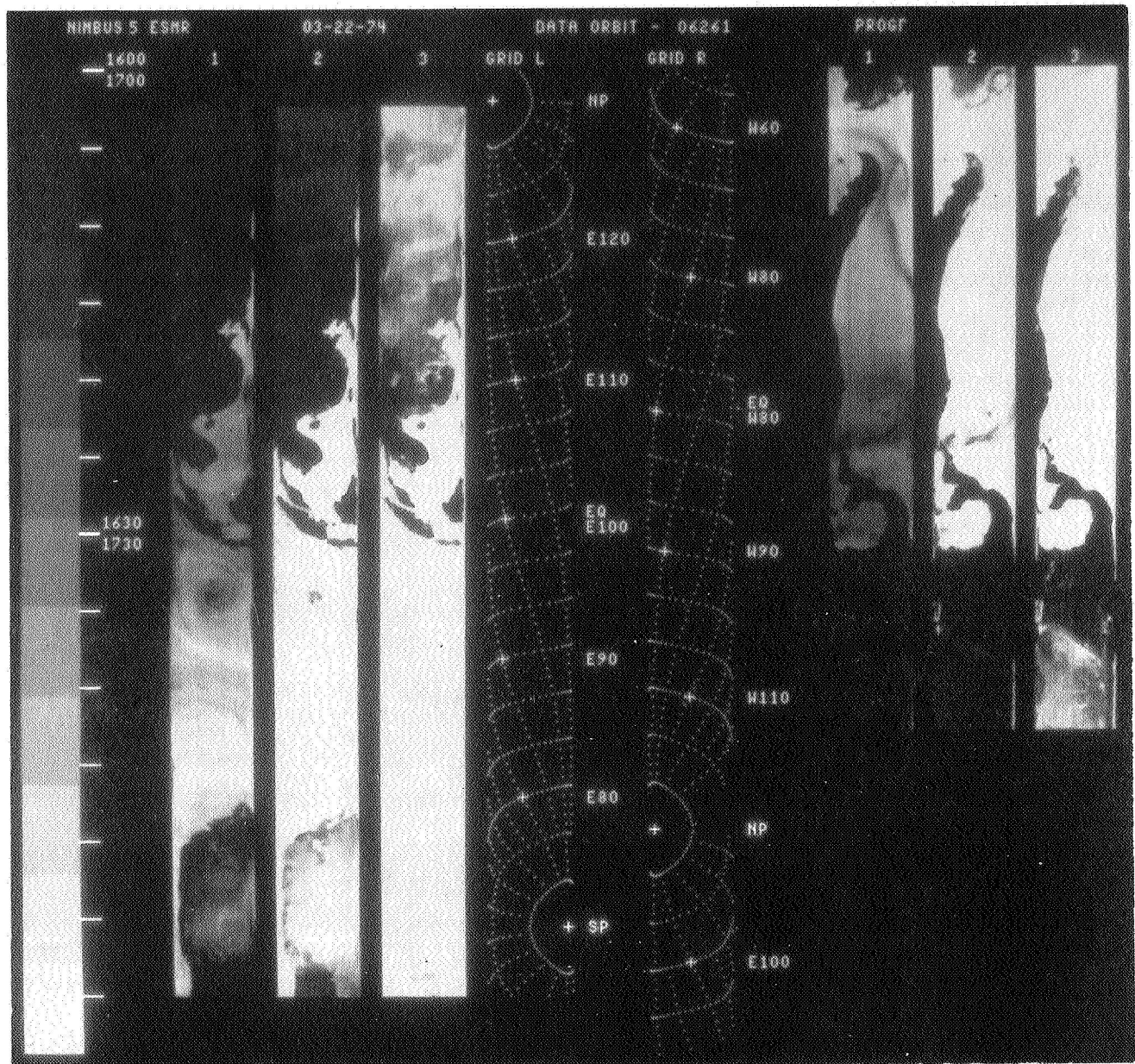


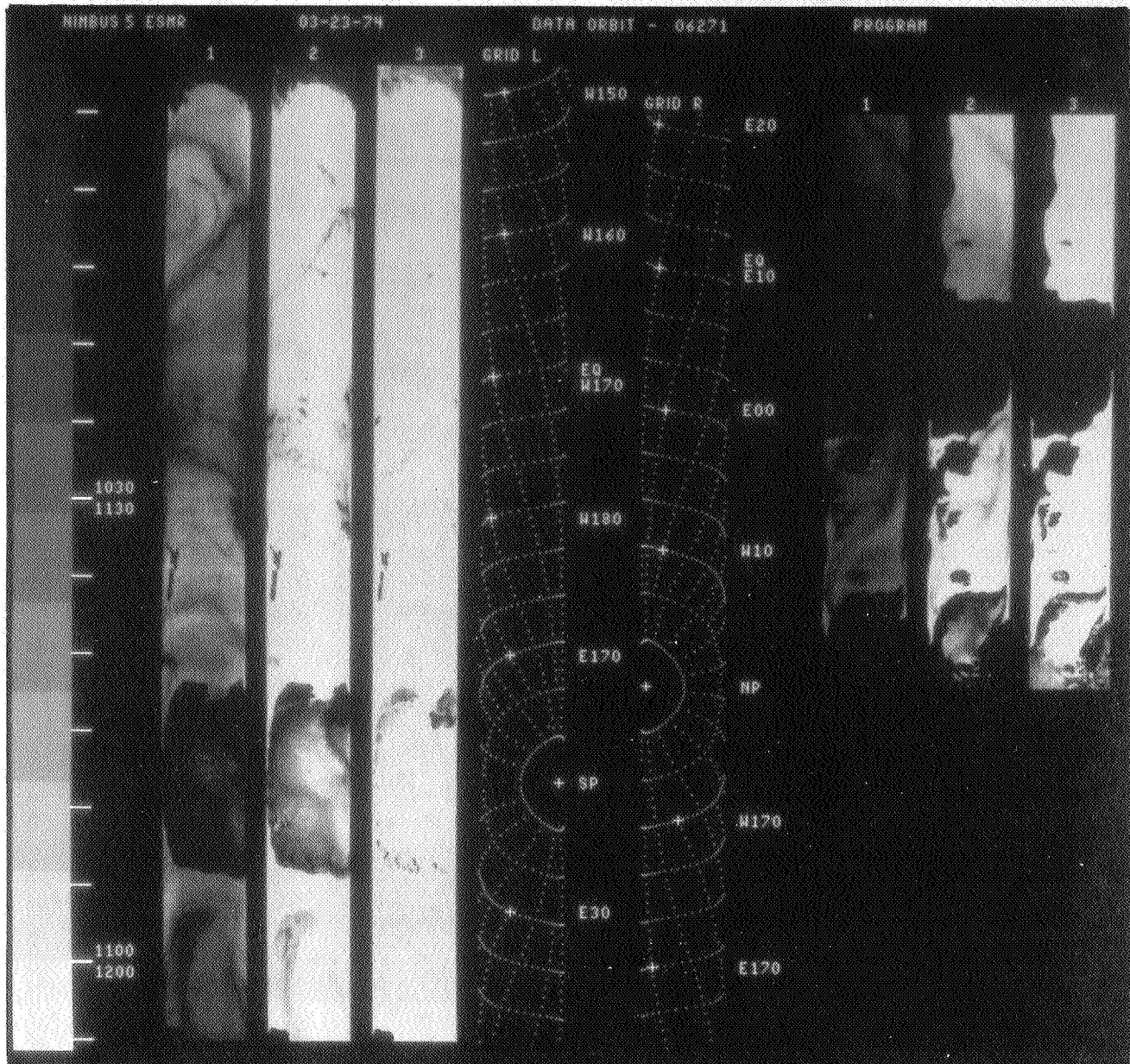


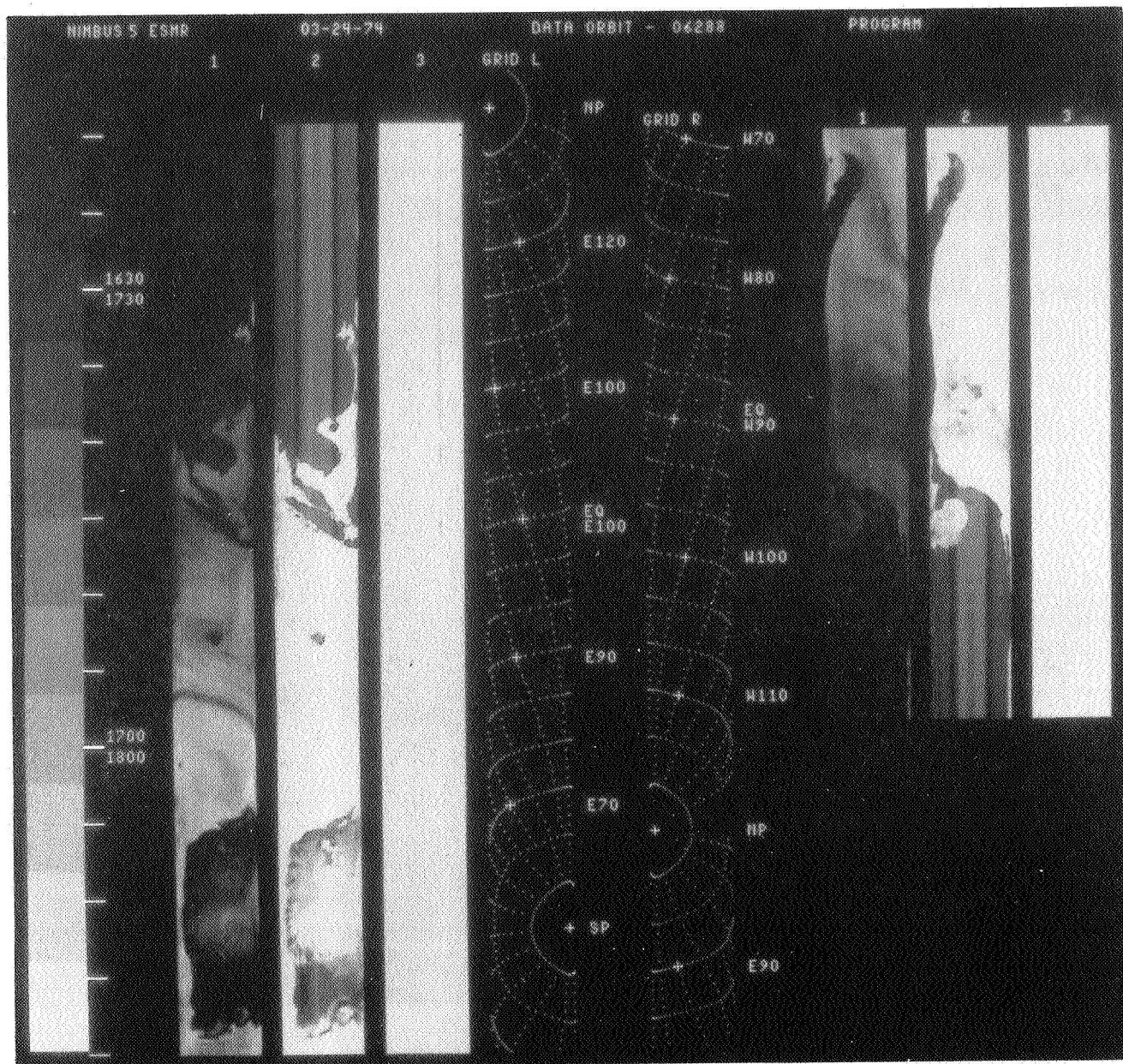


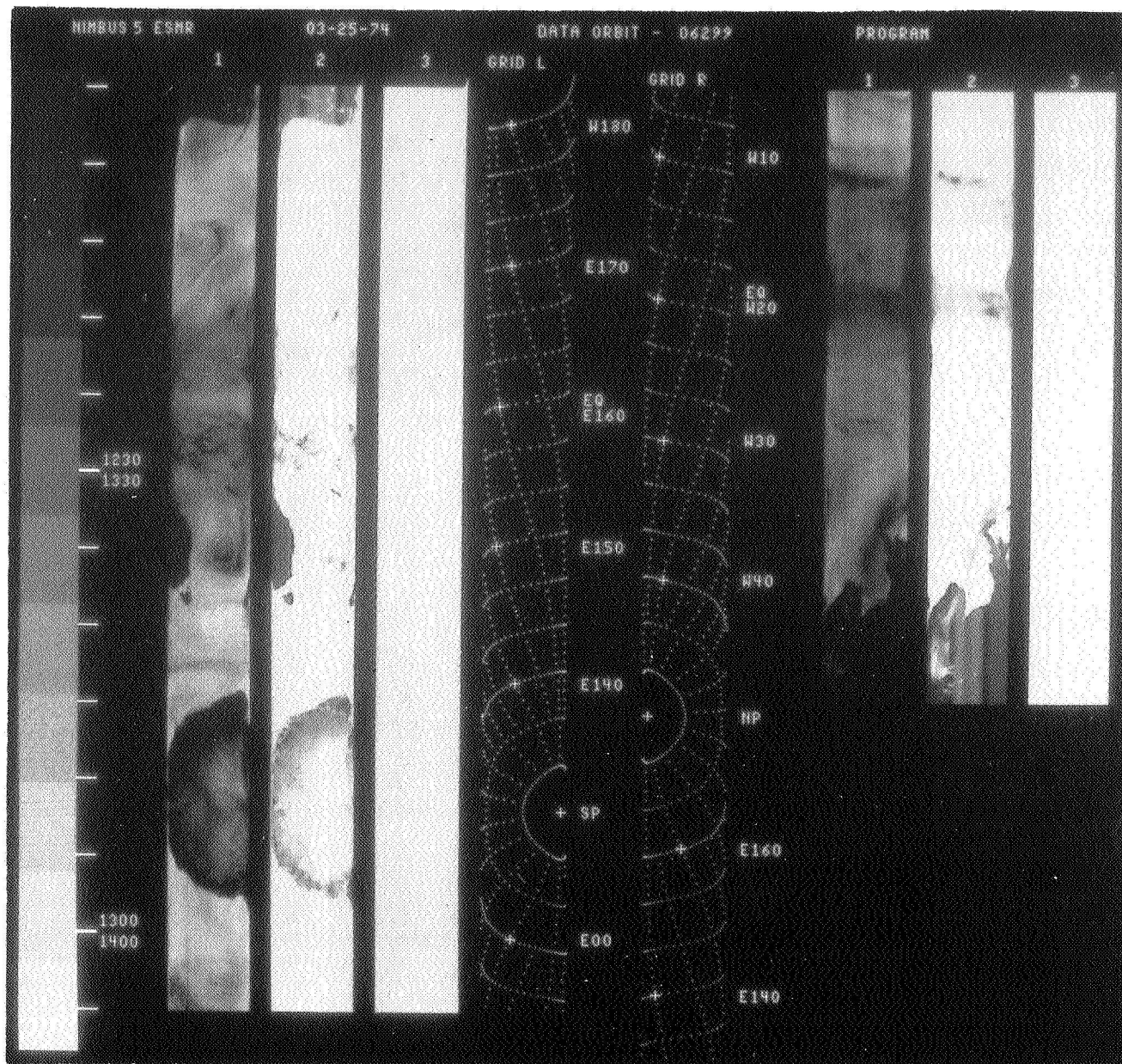


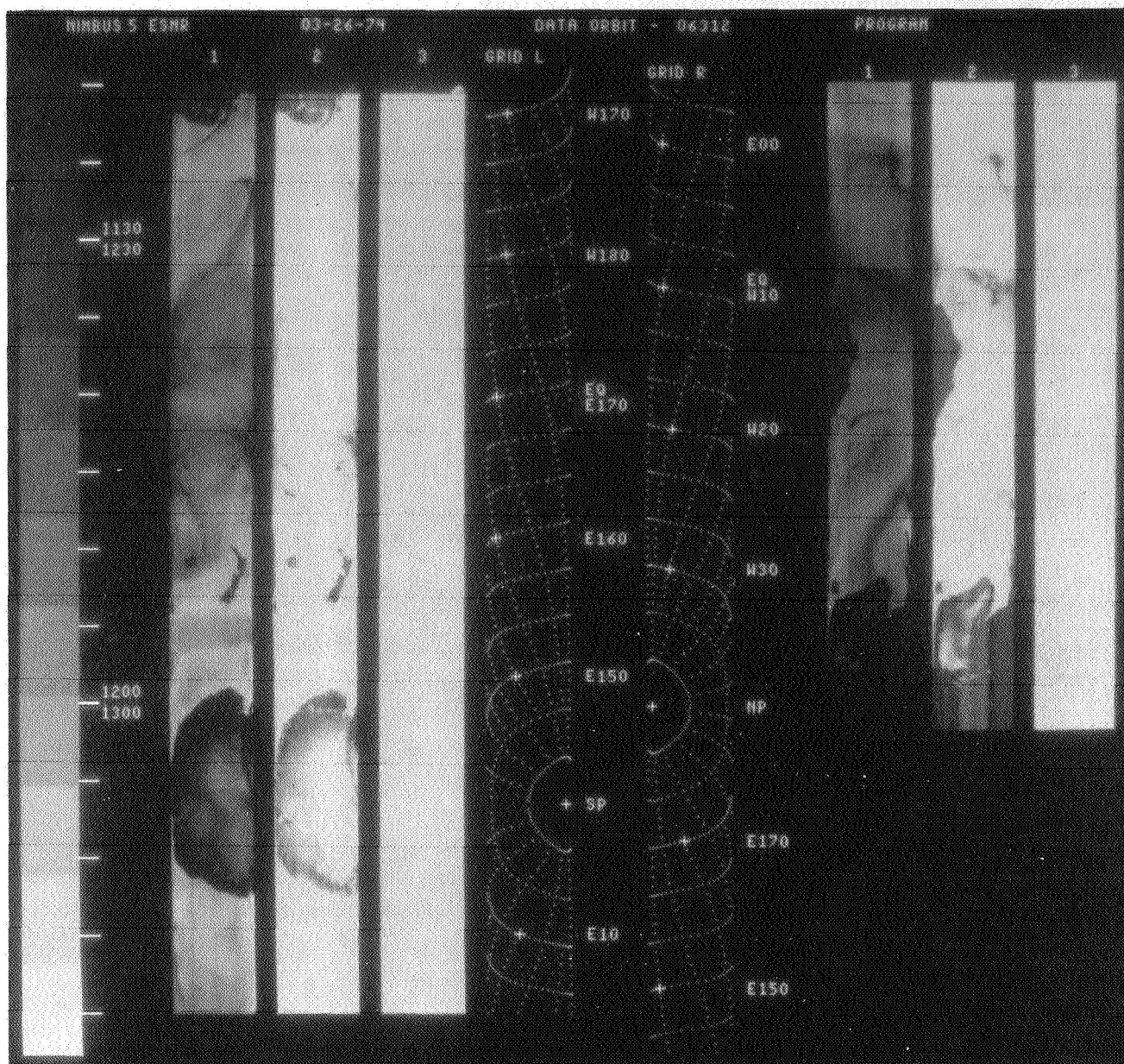


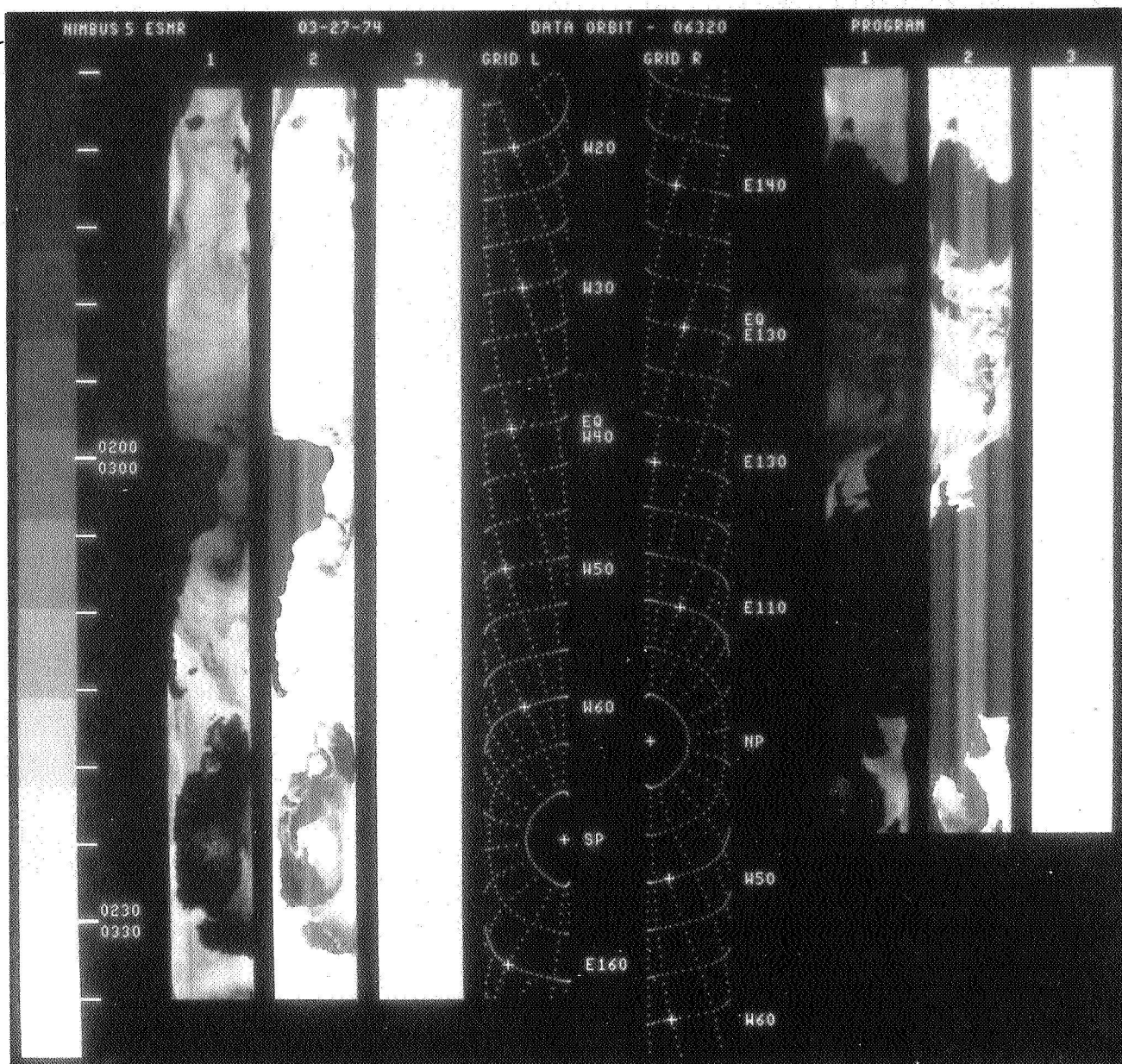


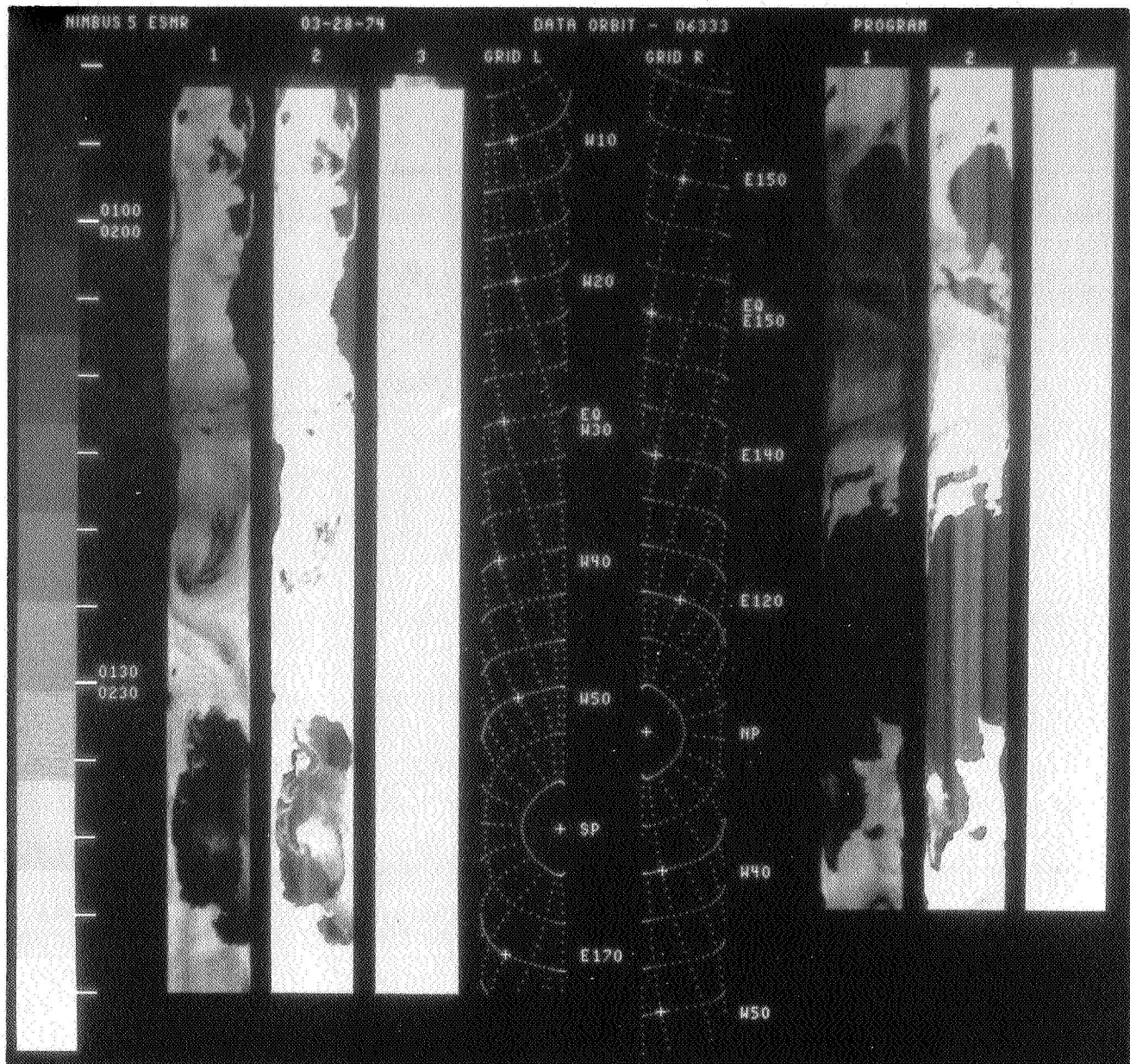


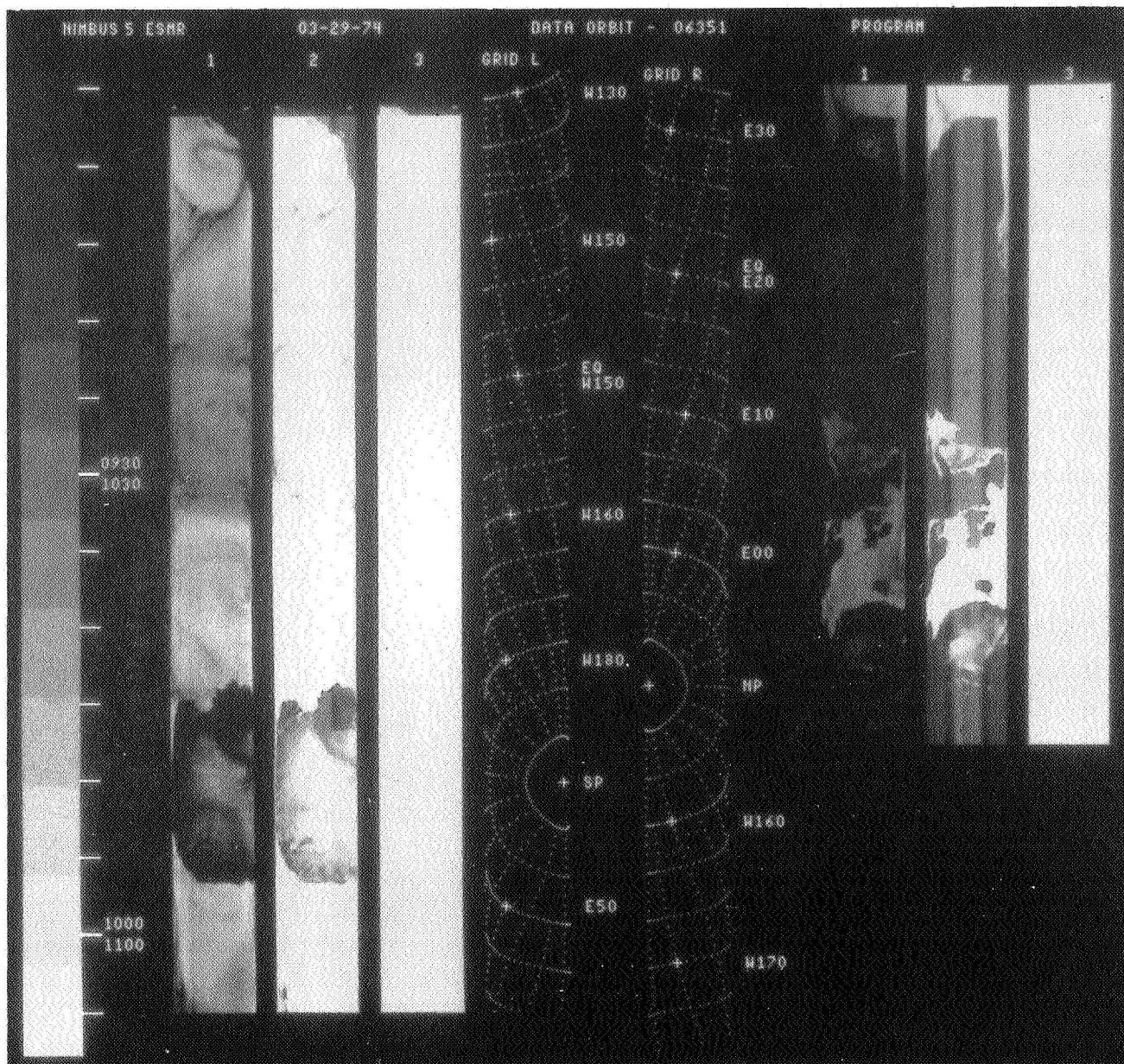


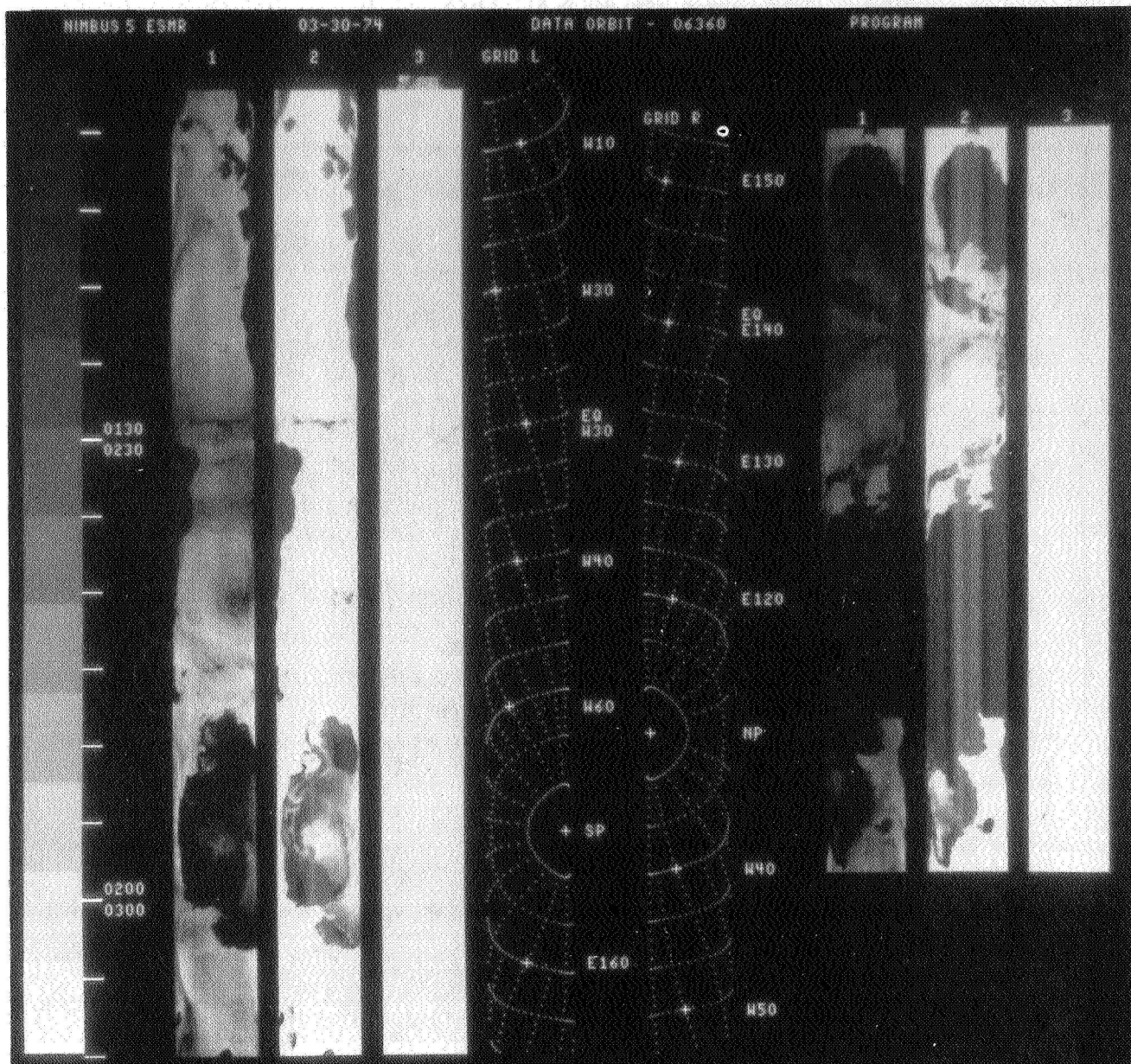


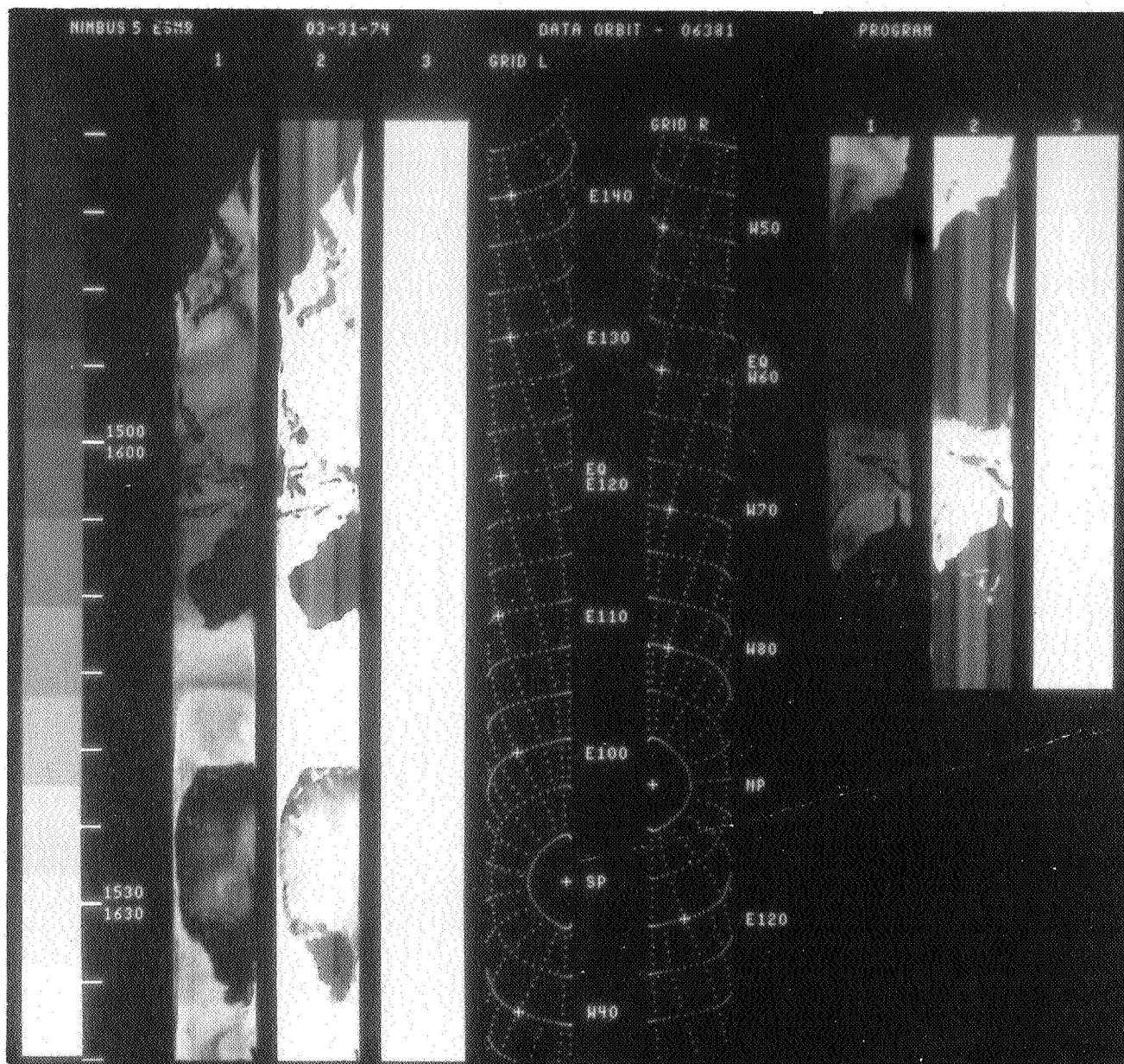












SECTION 4

TEMPERATURE HUMIDITY INFRARED RADIOMETER MONTAGES

This section pictorially documents the data from the Temperature Humidity Infrared Radiometer subsystem carried on the Nimbus 5 Meteorological Satellite. Section 4. 1 contains all nighttime THIR 11.5 and 6.7 micrometer montages and Section 4. 2 contains all daytime THIR 11.5 and 6.7 micrometer montages, arranged in chronological order. Key latitudes can be read from the superposed grids. Grid points are identified where each swath crosses 60°N, 30°N, EQUATOR, 30°S, and 60°S.

Vellum Location Guide overlays, attached to the back of this document, may be used for general orientation with the data presented in each THIR montage. Proper alignment of the overlay grid is accomplished by matching the grid indices on the equator with the two "T" marks on each montage.

Each THIR montage is provided with a time scale to determine the Greenwich Mean Time limits required to order processed THIR grid print maps (see page 38, The Nimbus 5 User's Guide). The time scale is used to determine the number of minutes from ascending (daytime data) or descending (nighttime data) node time for the interval of data required. To obtain the GMT for daytime data, the measured time is to be added to the ascending node time in the northern hemisphere and subtracted in the southern hemisphere. For nighttime data, the measured time is to be subtracted from the descending node time in the northern hemisphere and added in the southern hemisphere. The ascending and descending node times are given in Table 2-2 of Section 2.

The following alternate procedure also establishes GMT limits. Knowing the latitude limits of the study area, the minutes from ascending or descending node can be directly interpolated from Table 4-1. These time values can then be added to or subtracted from node times given in Table 2-2 of Section 2.

A description of the THIR experiment and instructions for ordering THIR data may be found in The Nimbus 5 User's Guide, Section 2.

Table 4-1

Latitude versus Minutes from Ascending
or Descending Node

Latitude from AN or DN	Minutes and Seconds from AN or DN
0	0:00
5	1:31
10	3:02
15	4:33
20	6:03
25	7:34
30	9:05
35	10:36
40	12:08
45	13:40
50	15:12
55	16:44
60	18:18
65	19:52
70	21:33
75	23:26
78	24:44
80.1	26:49
78	29:00
75	30:09
70	31:51
65	33:35

SECTION 4.1
TEMPERATURE HUMIDITY INFRARED RADIOMETER
NIGHTTIME MONTAGES

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

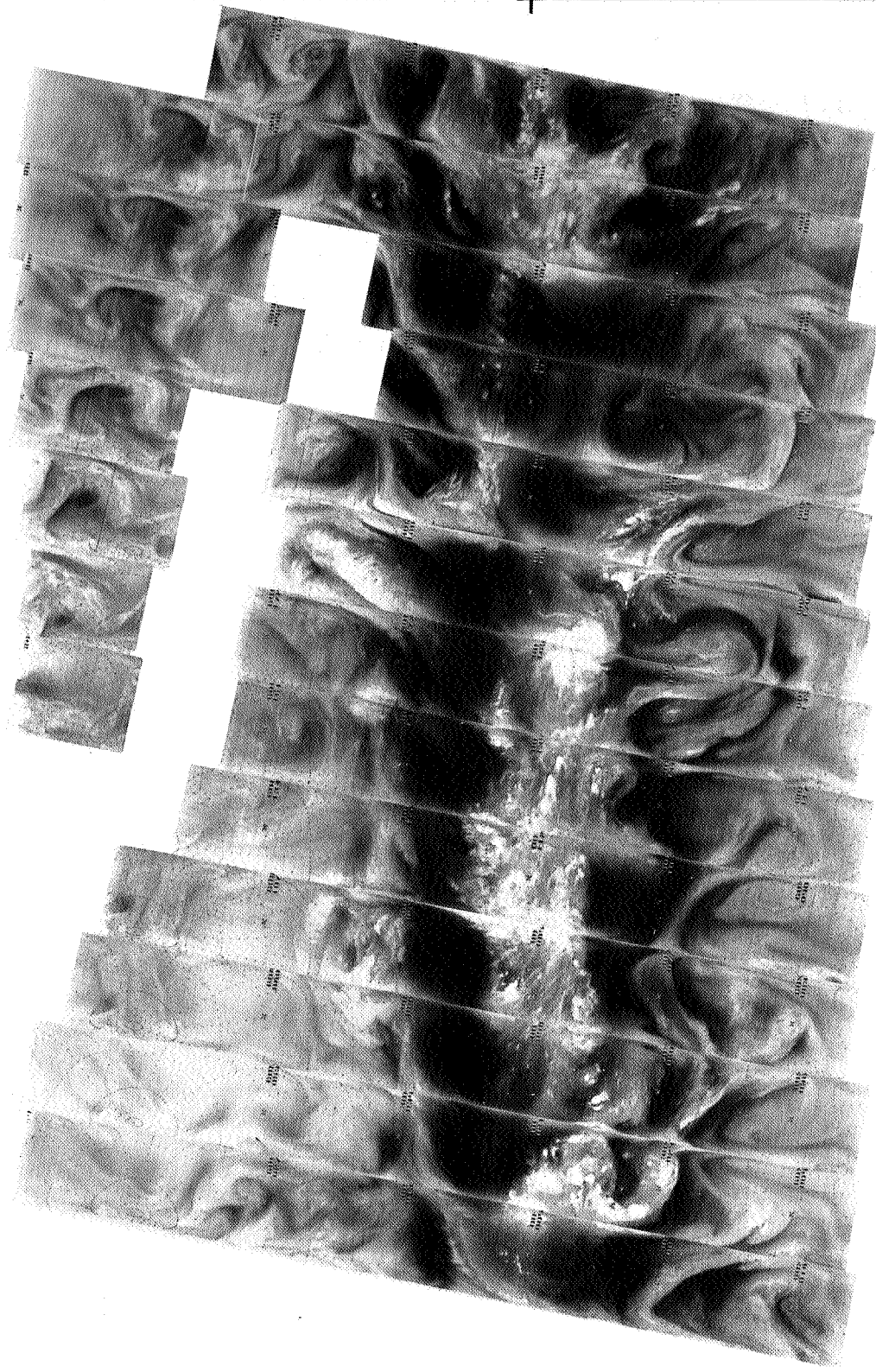


5606 5605 5604 5603 5602 5601 5600 5599 5598 5597 5596 5595 5594

1 FEBRUARY 1974

11.5 μm

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



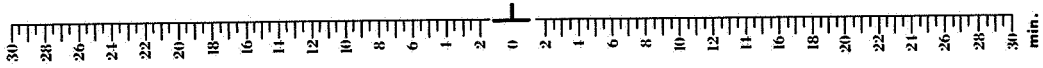
5606 5605 5604 5603 5602 5601 5600 5599 5598 5597 5596 5595 5594

1 FEBRUARY 1974

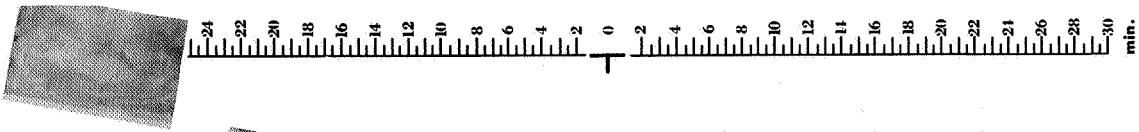
6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



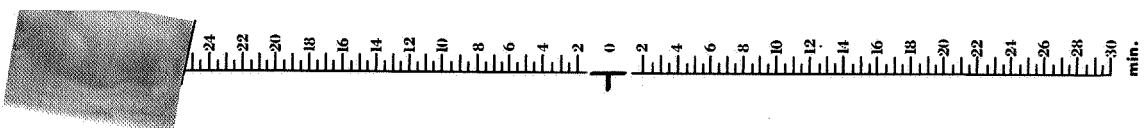
4-6



5620 5619 5618 5617 5616 5615 5614 5613 5612 5611 5610 5609 5608 5607

2 FEBRUARY 1974

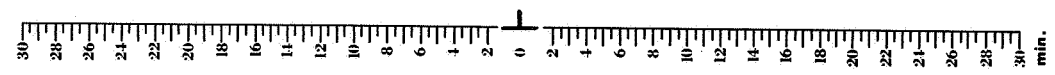
11.5 μ m



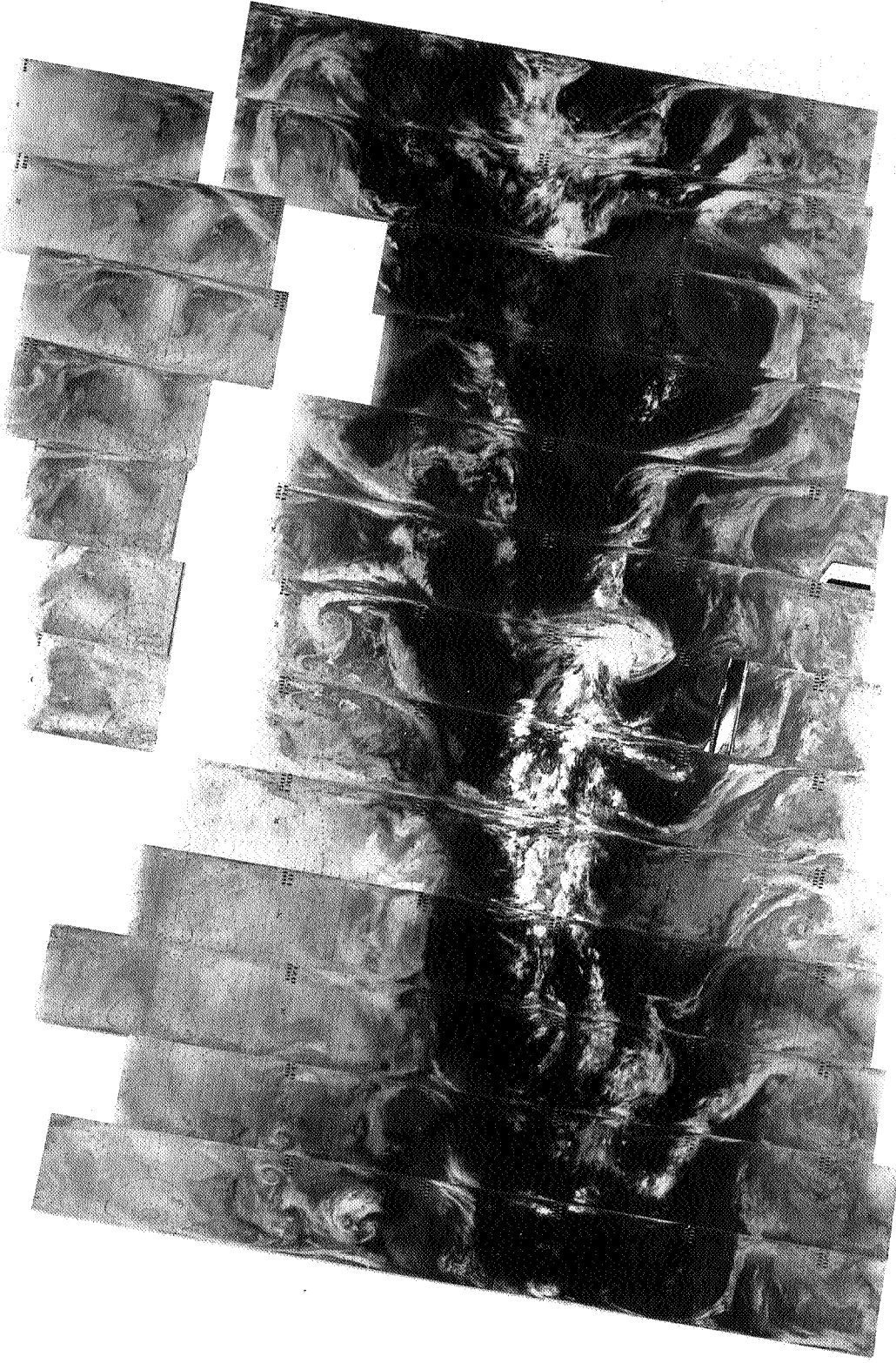
5620 5619 5618 5617 5616 5615 5614 5613 5612 5611 5610 5609 5608 5607

2 FEBRUARY 1974

6.7 μ m



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



5633 5632 5631 5630 5629 5628 5627 5626 5625 5624 5623 5622 5621

3 FEBRUARY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

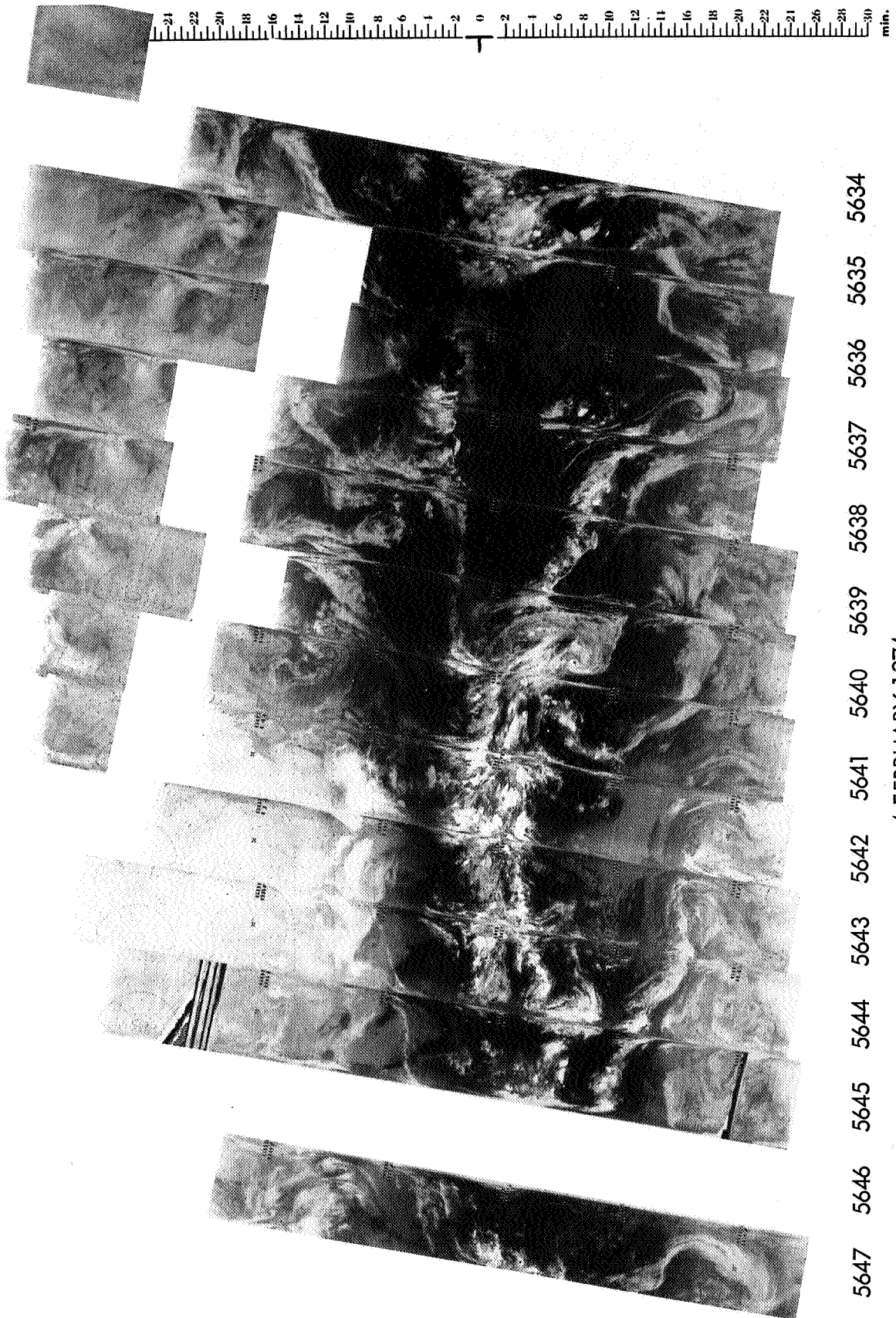


5633 5632 5631 5630 5629 5628 5627 5626 5625 5624 5623 5622 5621

3 FEBRUARY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

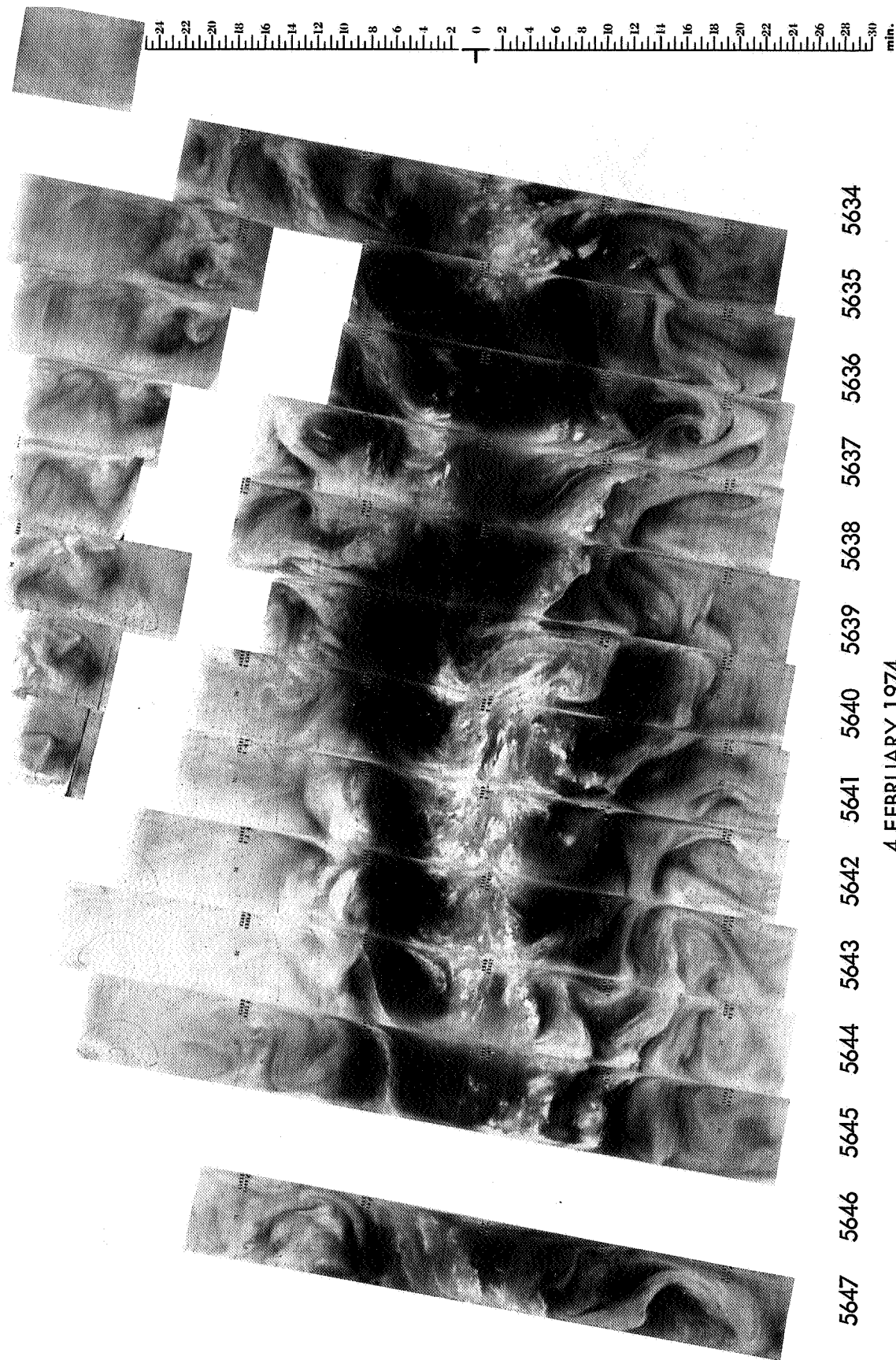


5647 5646 5645 5644 5643 5642 5641 5640 5639 5638 5637 5636 5635 5634

4 FEBRUARY 1974

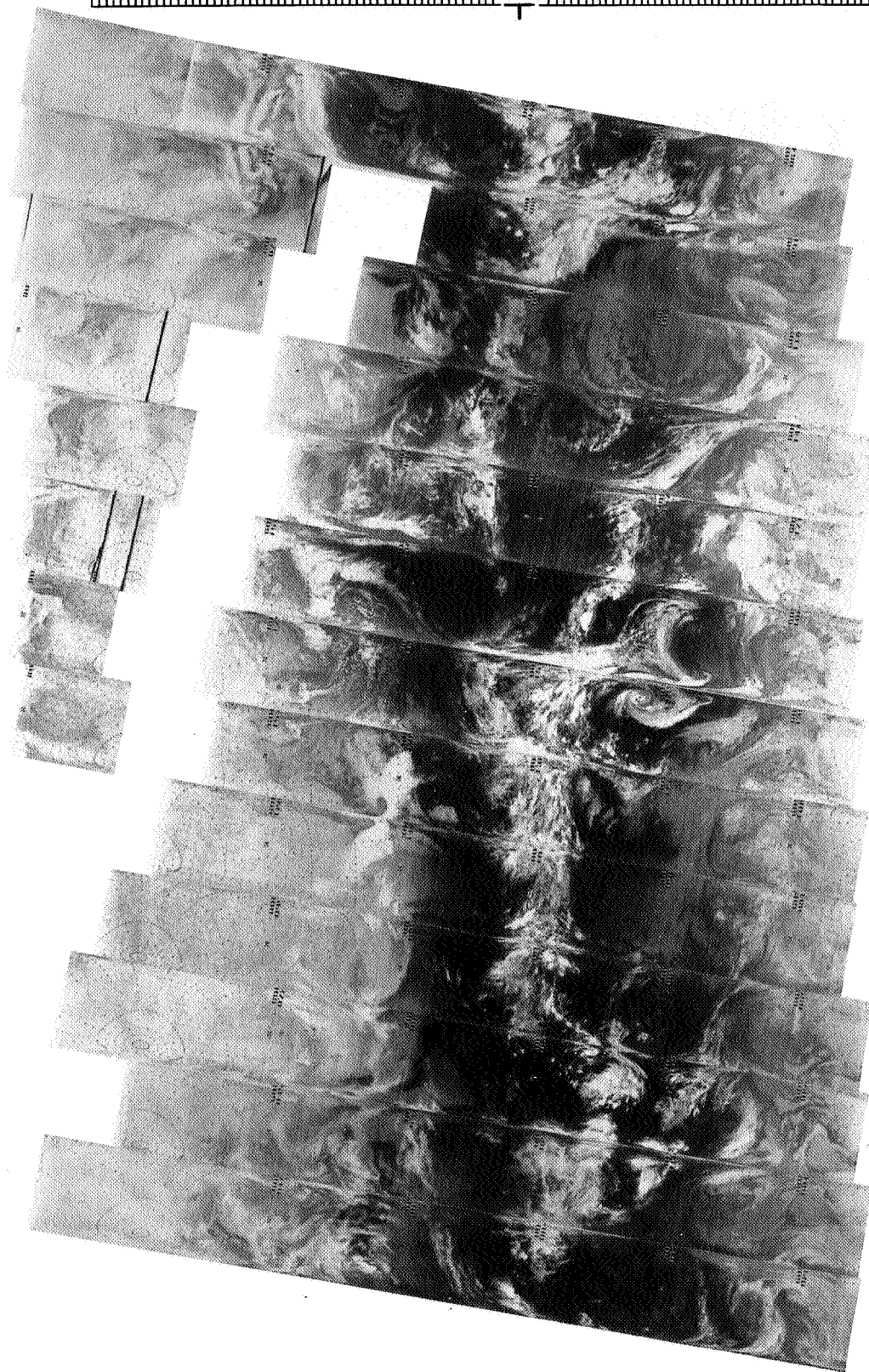
11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



4 FEBRUARY 1974

6.7 μ m



5660 5659 5658 5657 5656 5655 5654 5653 5652 5651 5650 5649 5648

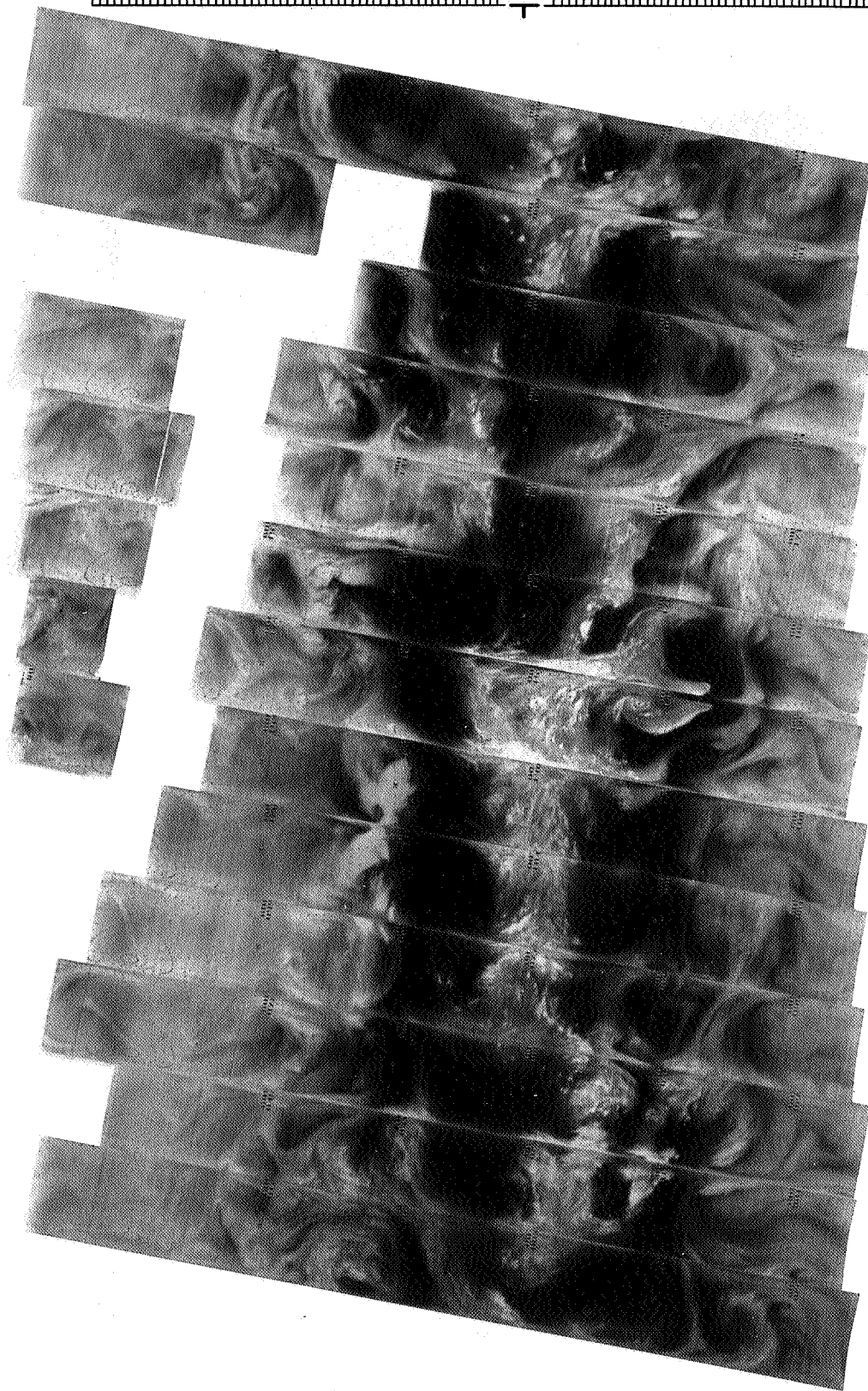
5 FEBRUARY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

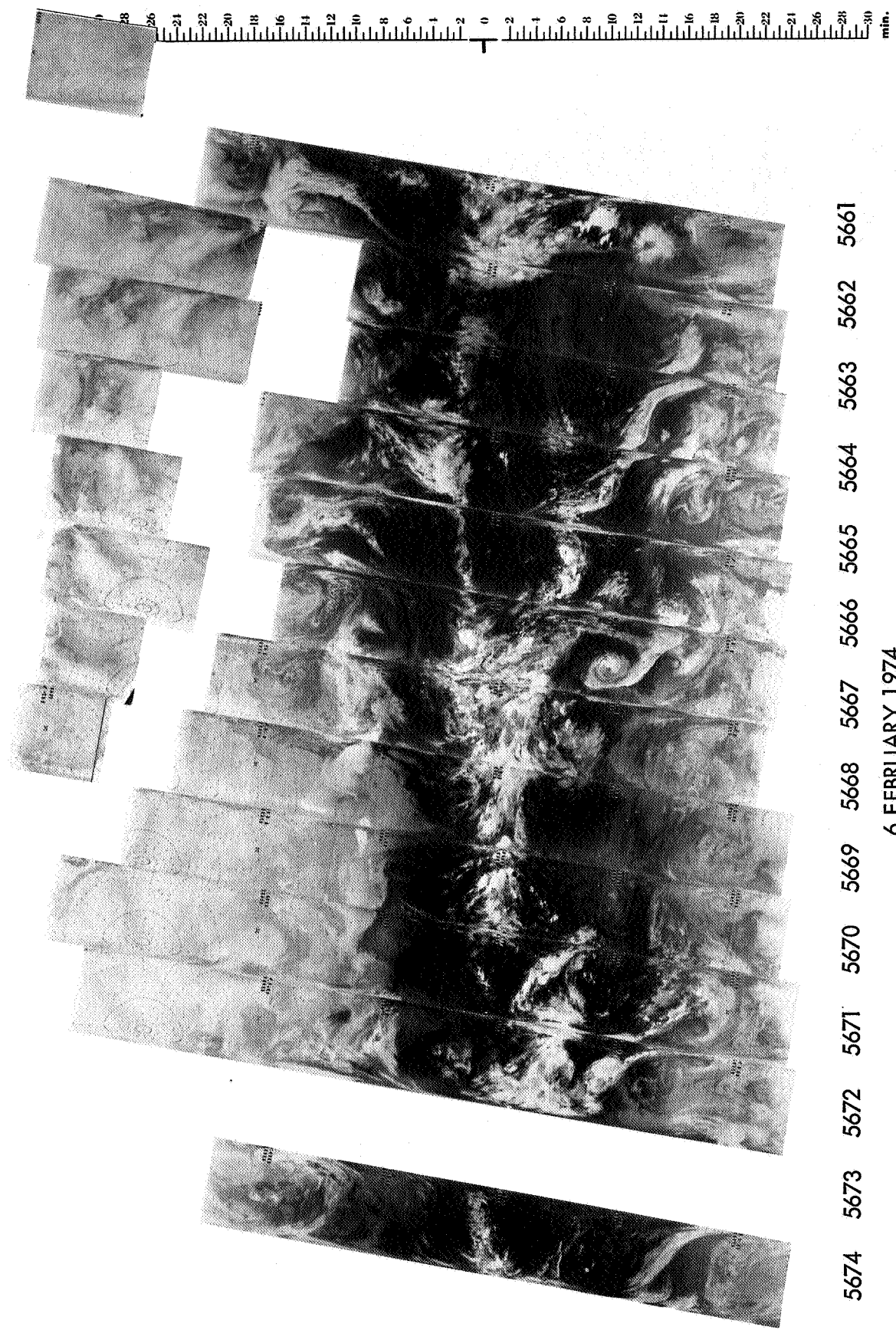


5660 5659 5658 5657 5656 5655 5654 5653 5652 5651 5650 5649 5648

5 FEBRUARY 1974

6.7 μ m

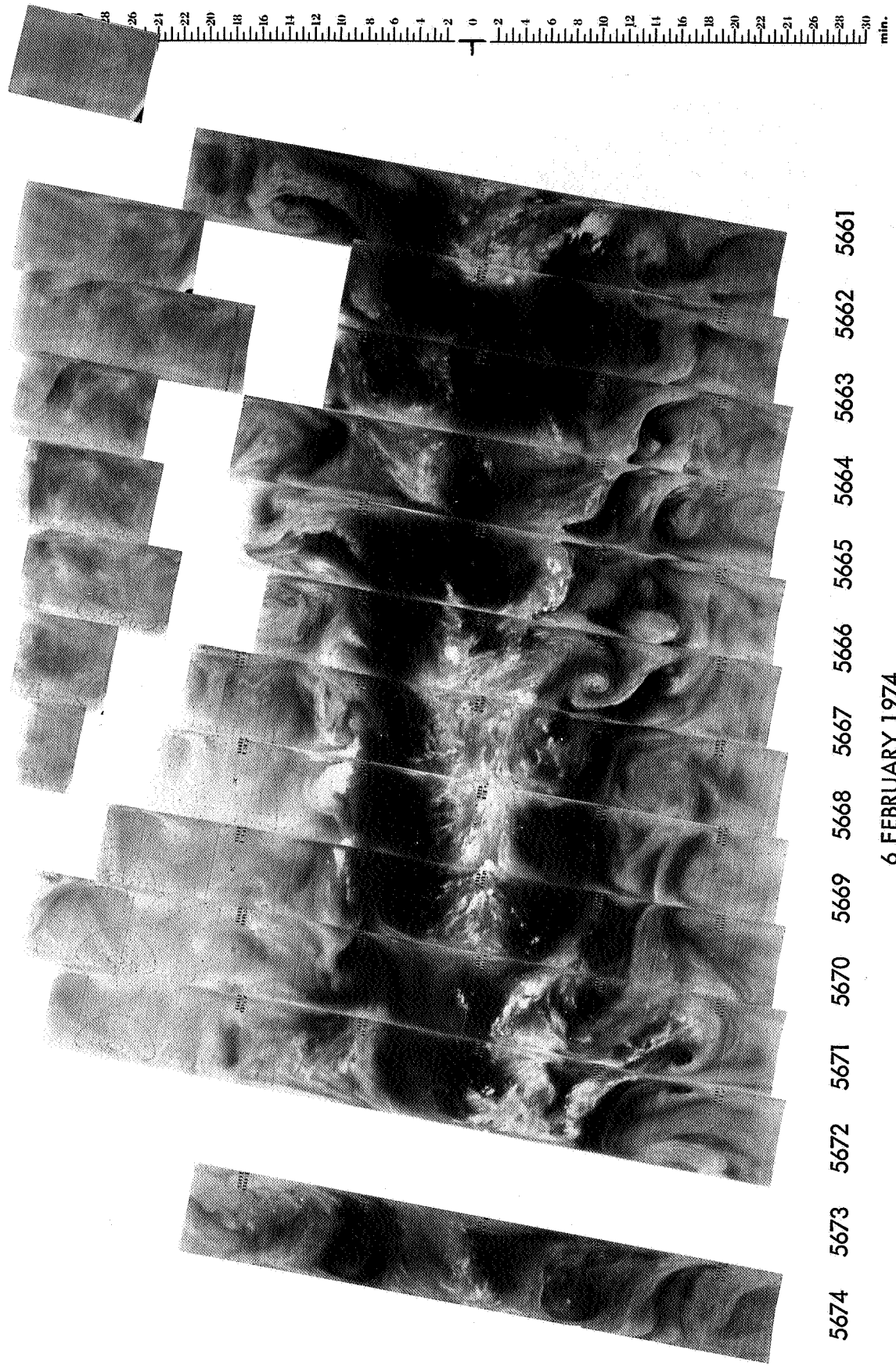
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



5674 5673 5672 5671 5670 5669 5668 5667 5666 5665 5664 5663 5662 5661

6 FEBRUARY 1974

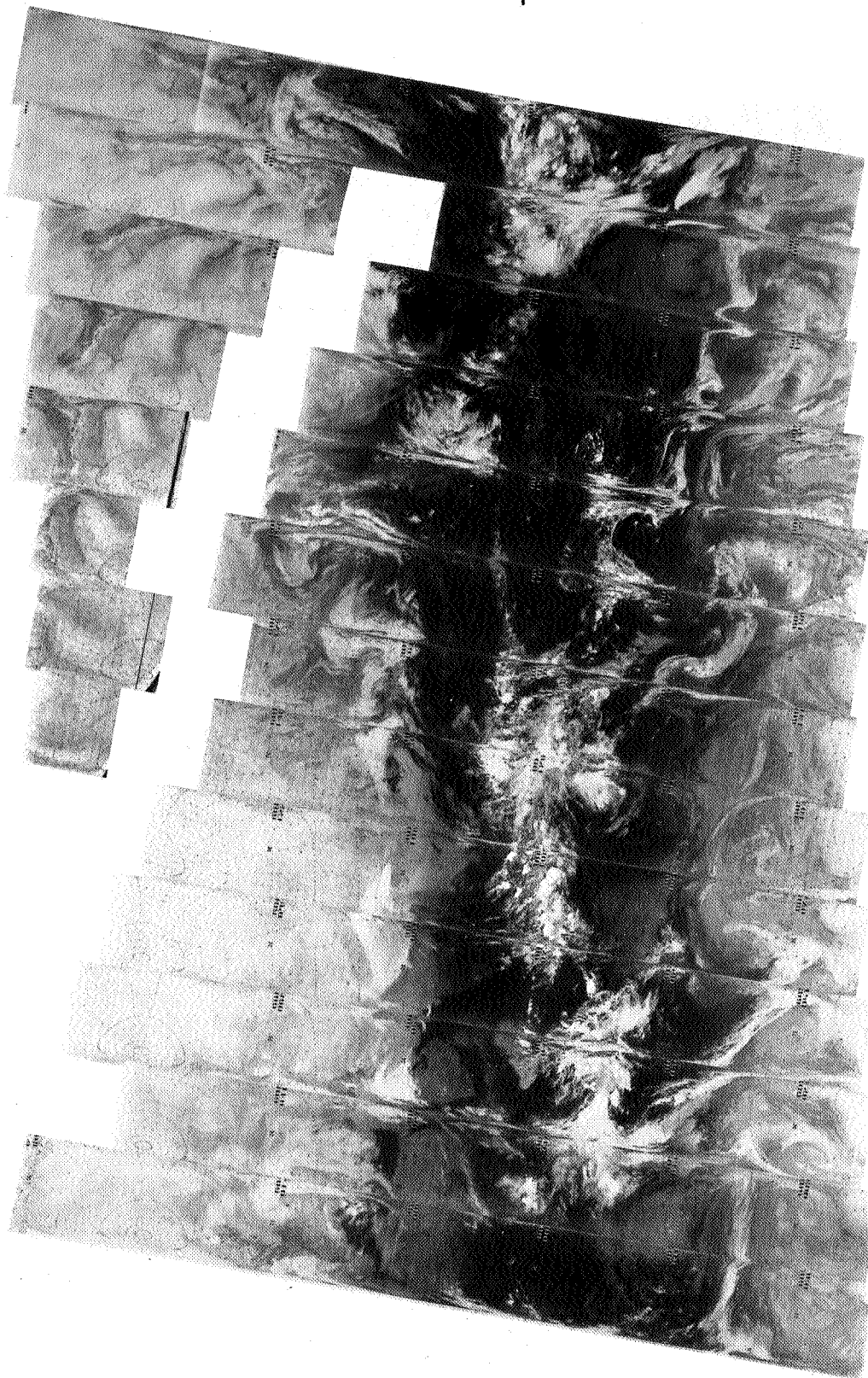
11.5 μ m



5674 5673 5672 5671 5670 5669 5668 5667 5666 5665 5664 5663 5662 5661

6 FEBRUARY 1974

6.7 μm



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

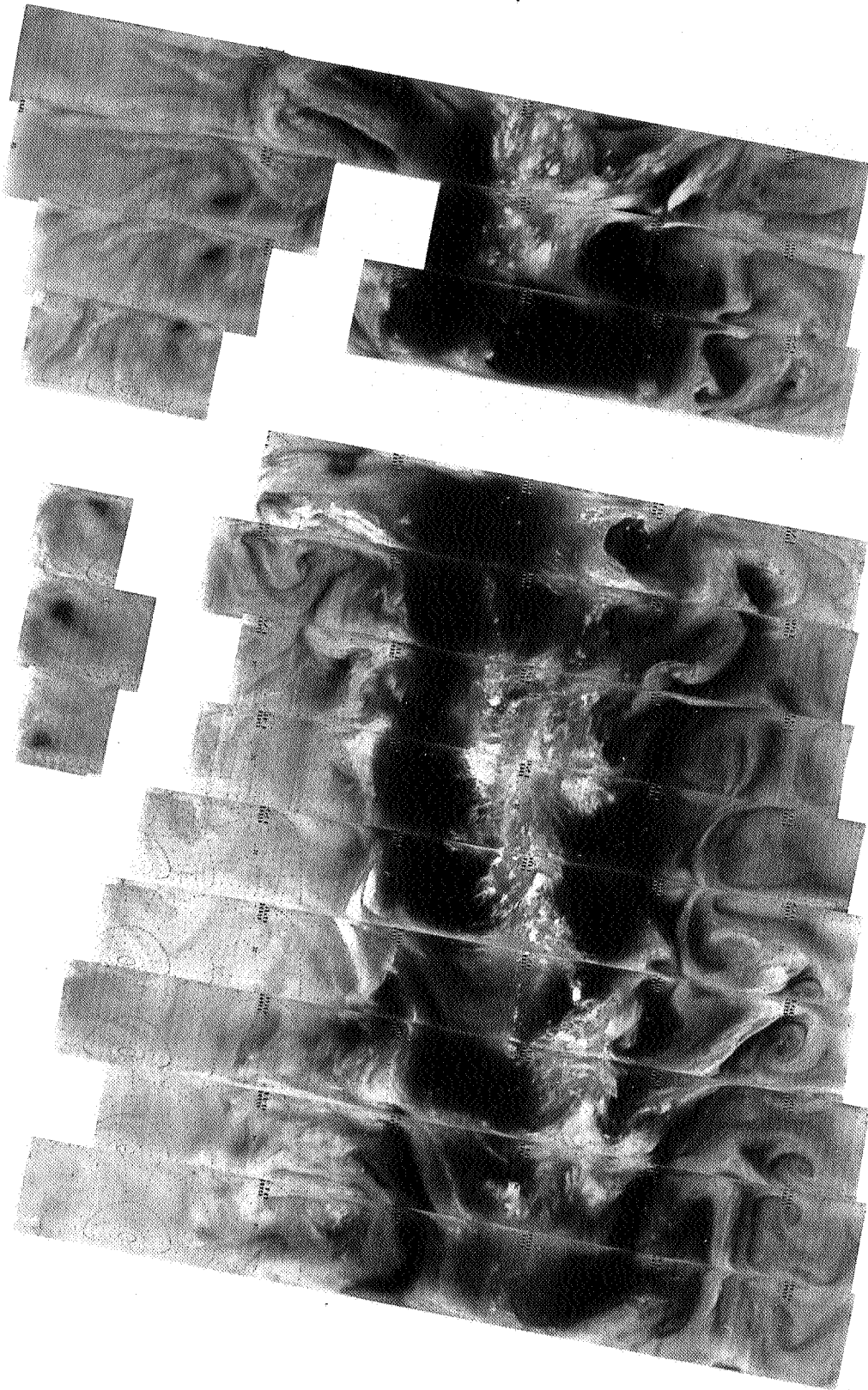
5687 5686 5685 5684 5683 5682 5681 5680 5679 5678 5677 5676 5675

7 FEBRUARY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



5687 5686 5685 5684 5683 5682 5681 5680 5679 5678 5677 5676 5675

7 FEBRUARY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

4-18

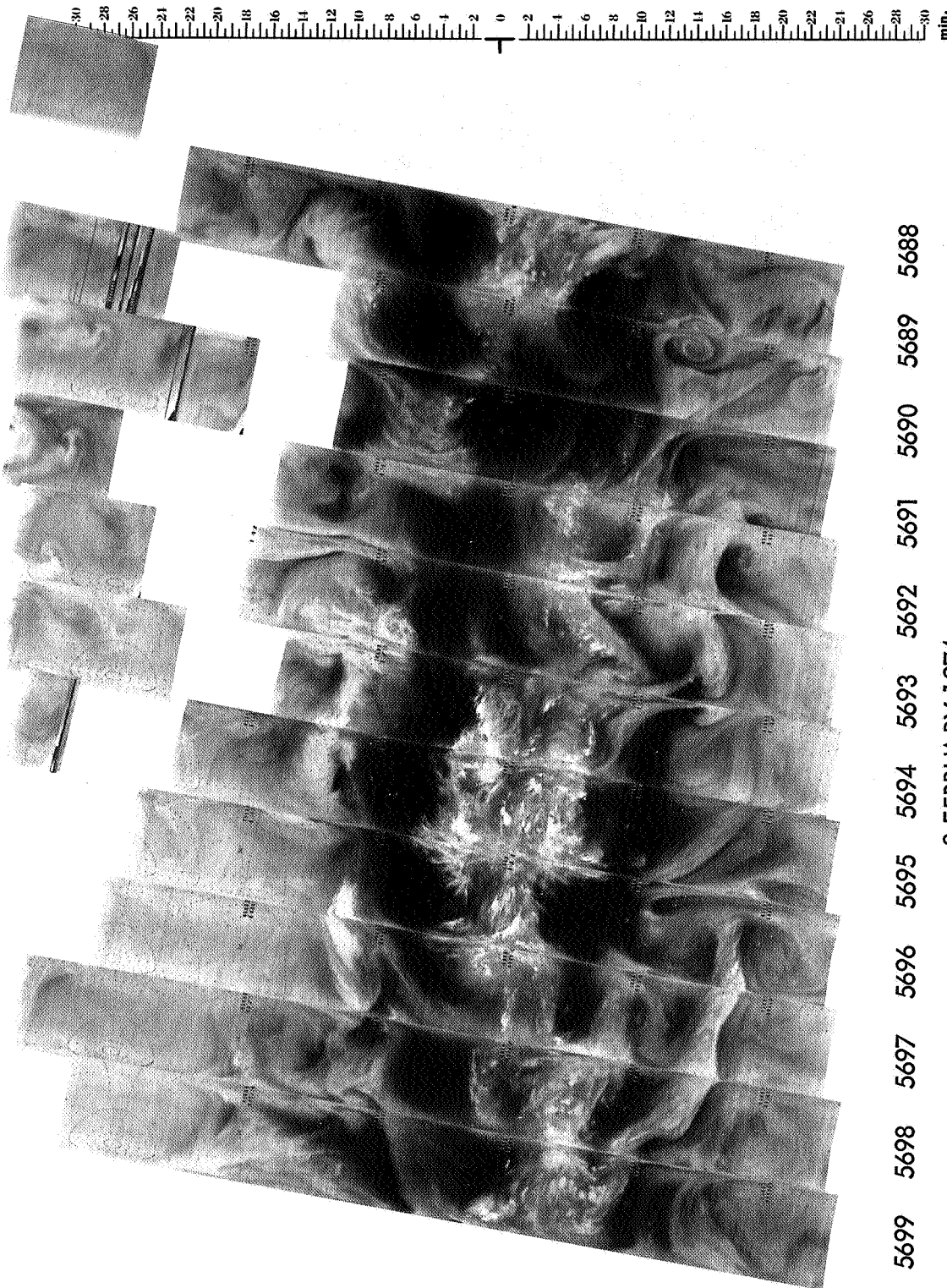


5700 5699 5698 5697 5696 5695 5694 5693 5692 5691 5690 5689 5688

8 FEBRUARY 1974

11.5 μ m

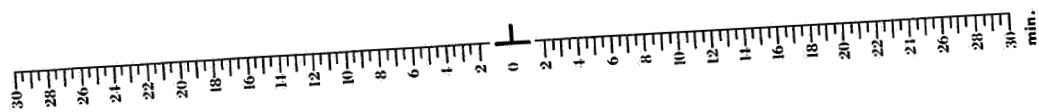
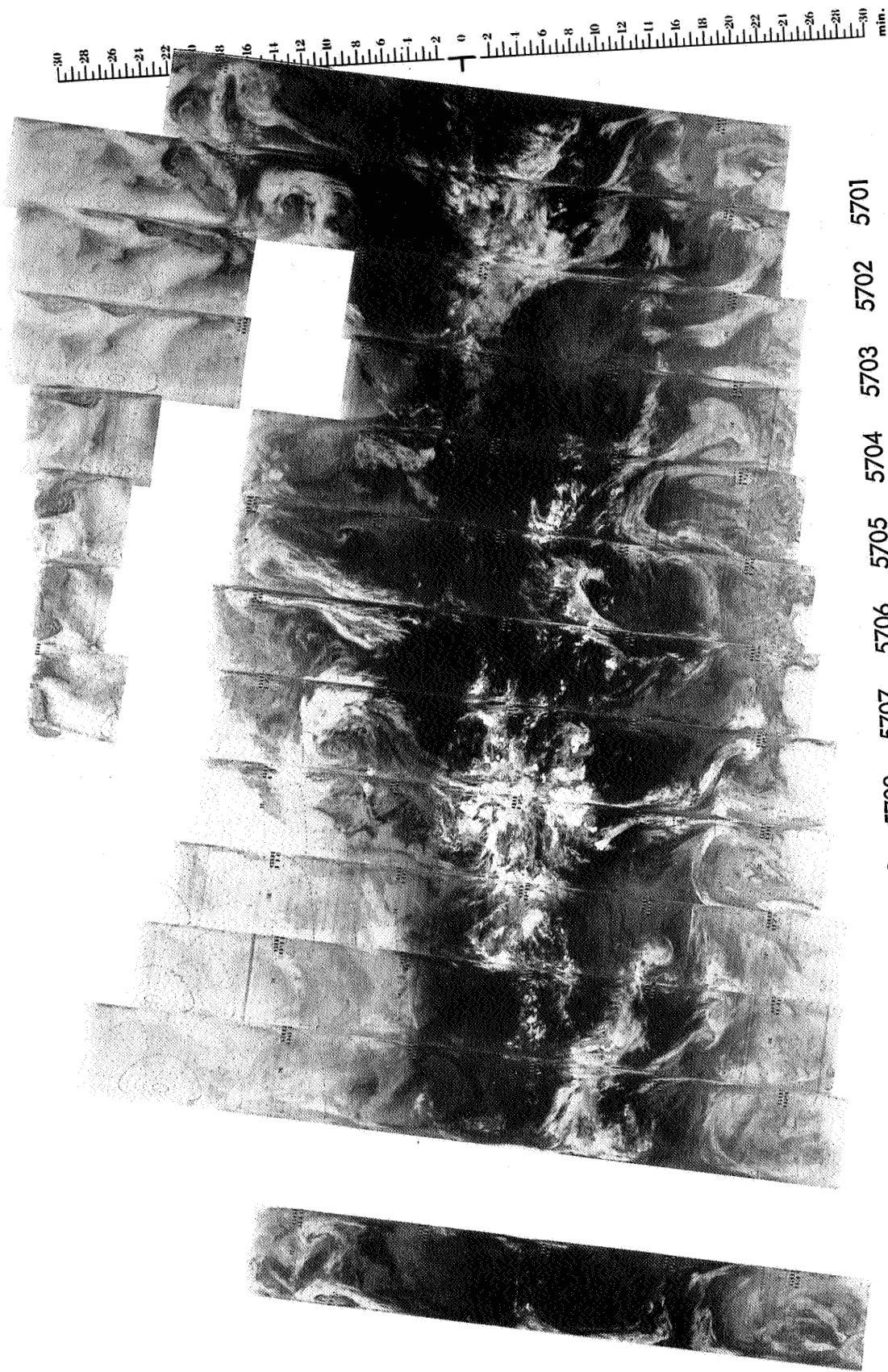
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

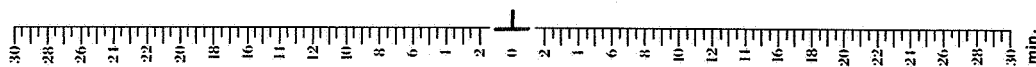
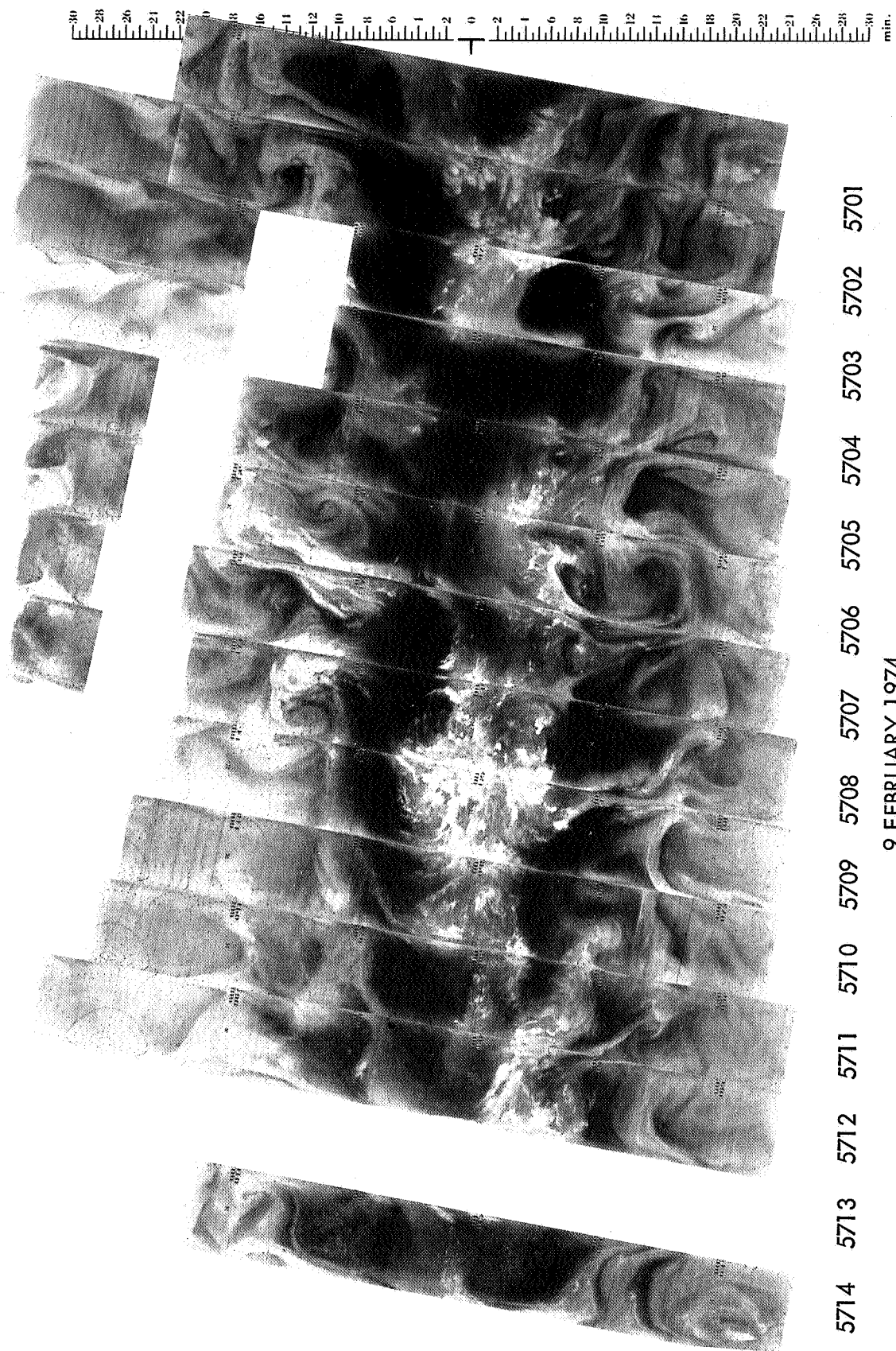


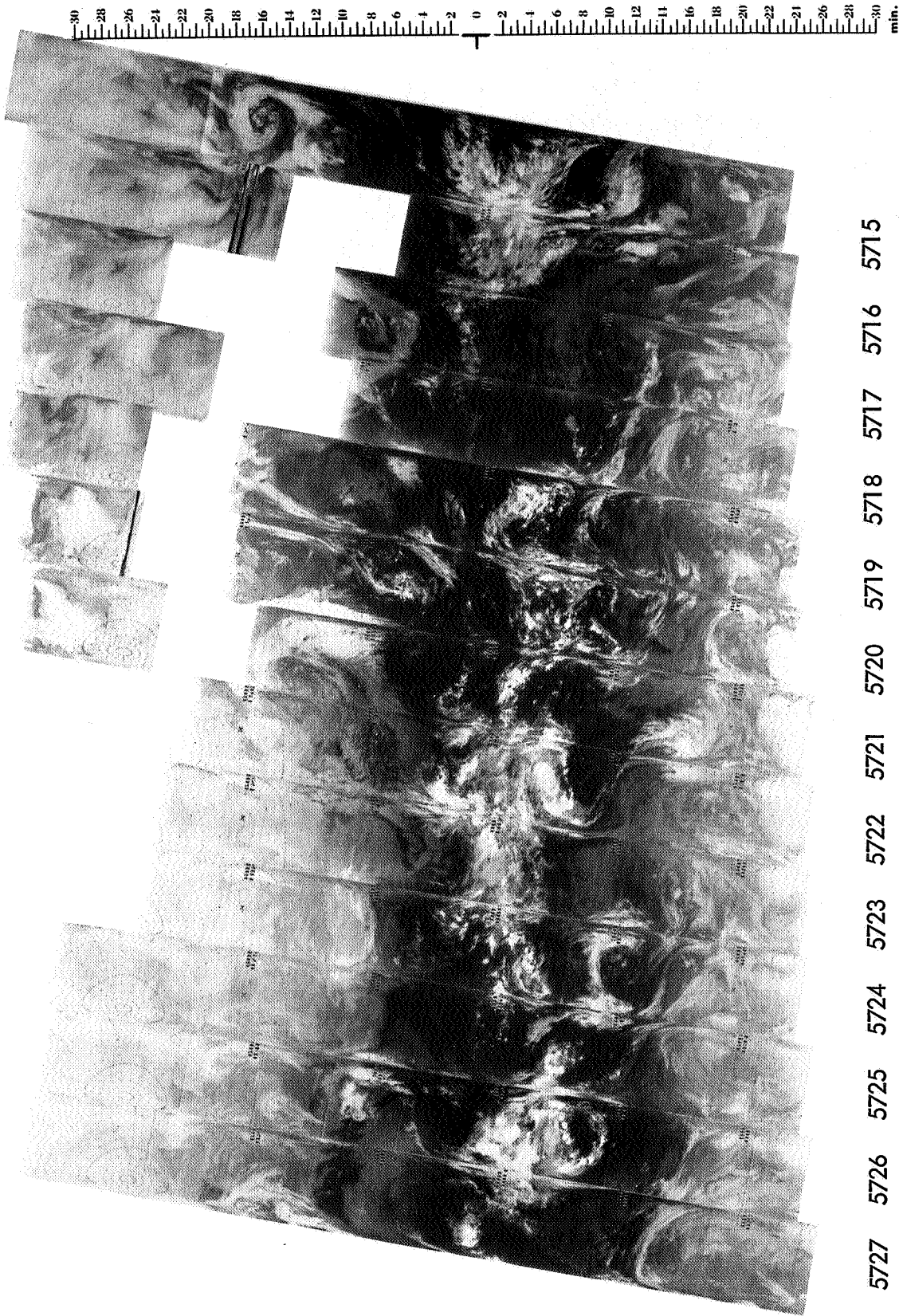
5700 5699 5698 5697 5696 5695 5694 5693 5692 5691 5690 5689 5688

8 FEBRUARY 1974

6.7 μ m



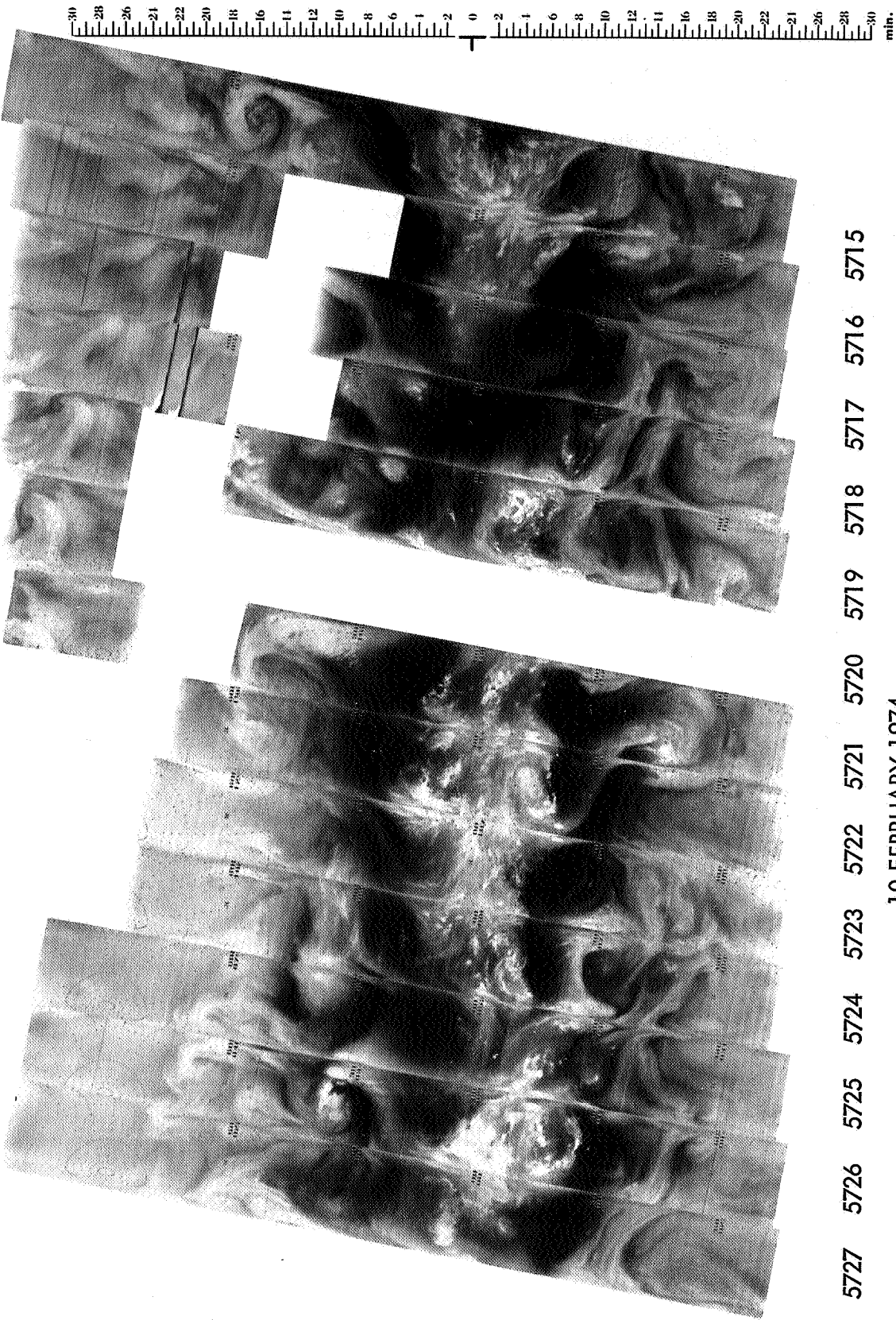


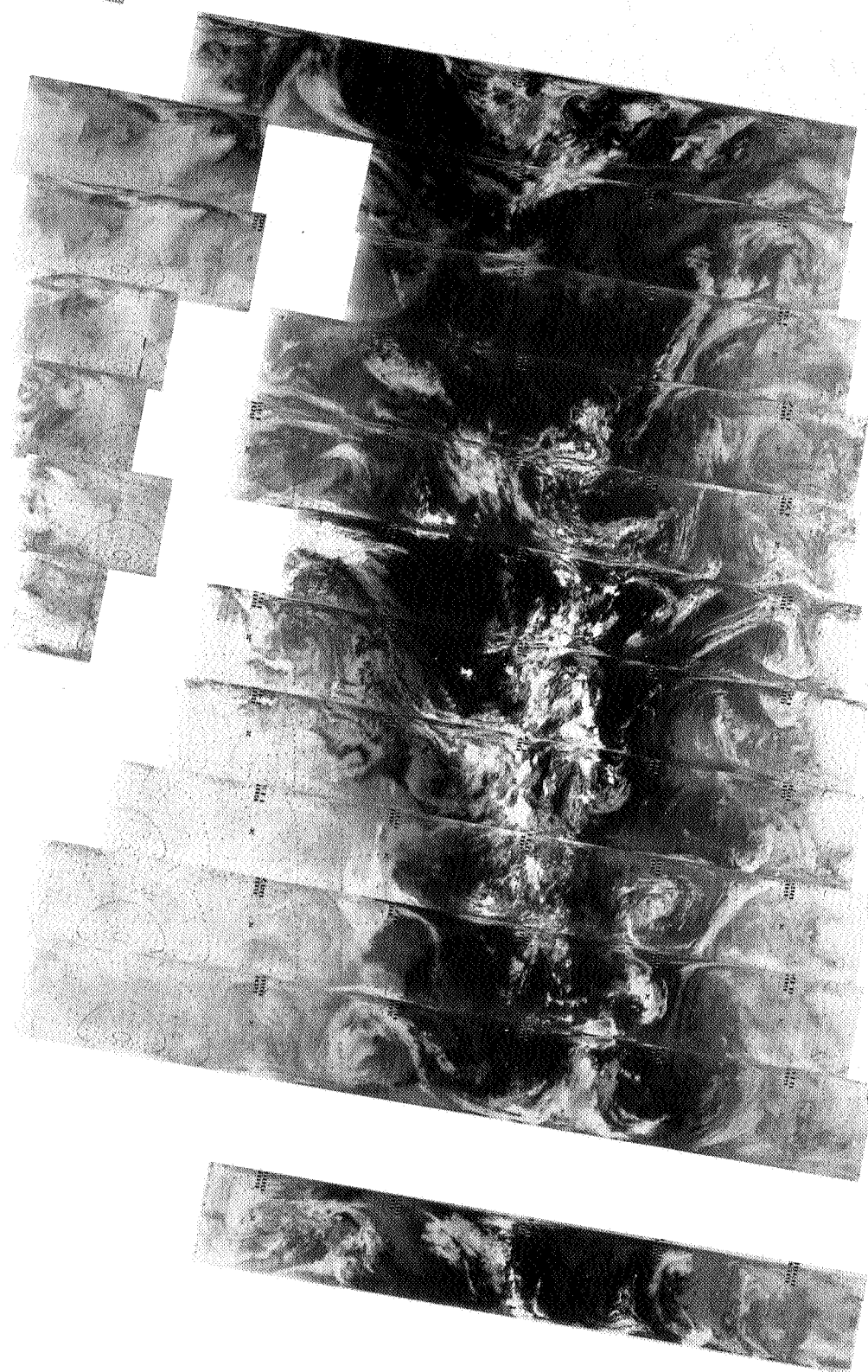
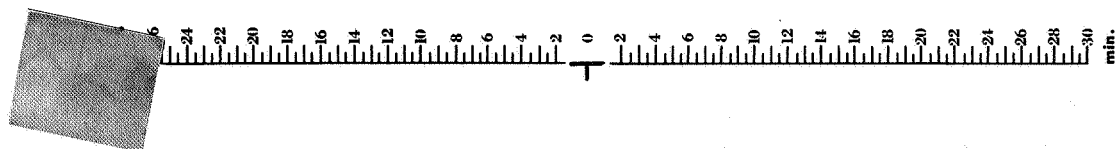


5727 5726 5725 5724 5723 5722 5721 5720 5719 5718 5717 5716 5715

10 FEBRUARY 1974

11.5 μ m

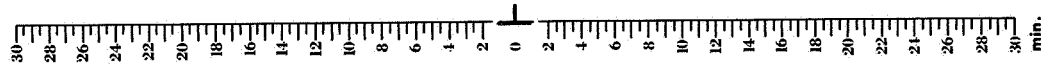


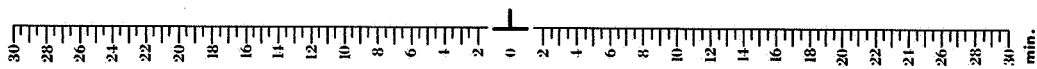
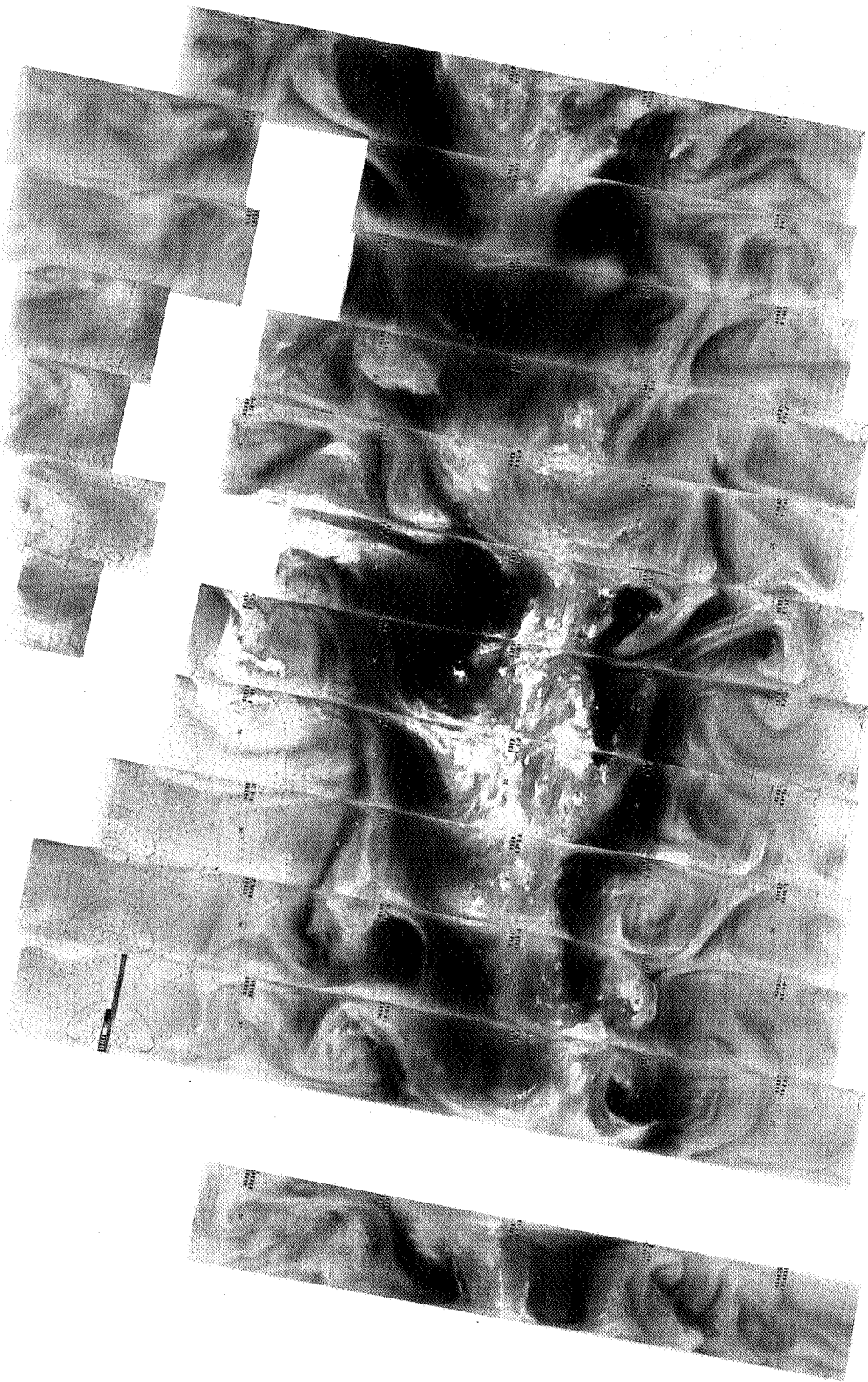
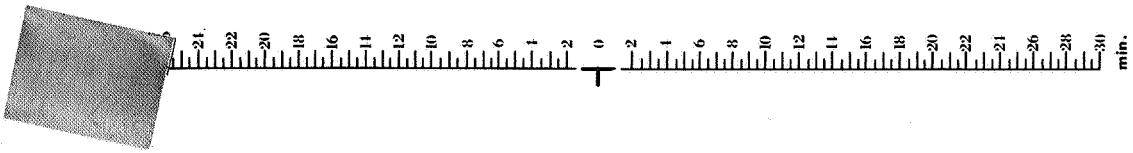


5741 5740 5739 5738 5737 5736 5735 5734 5733 5732 5731 5730 5729 5728

11 FEBRUARY 1974

11.5 μ m

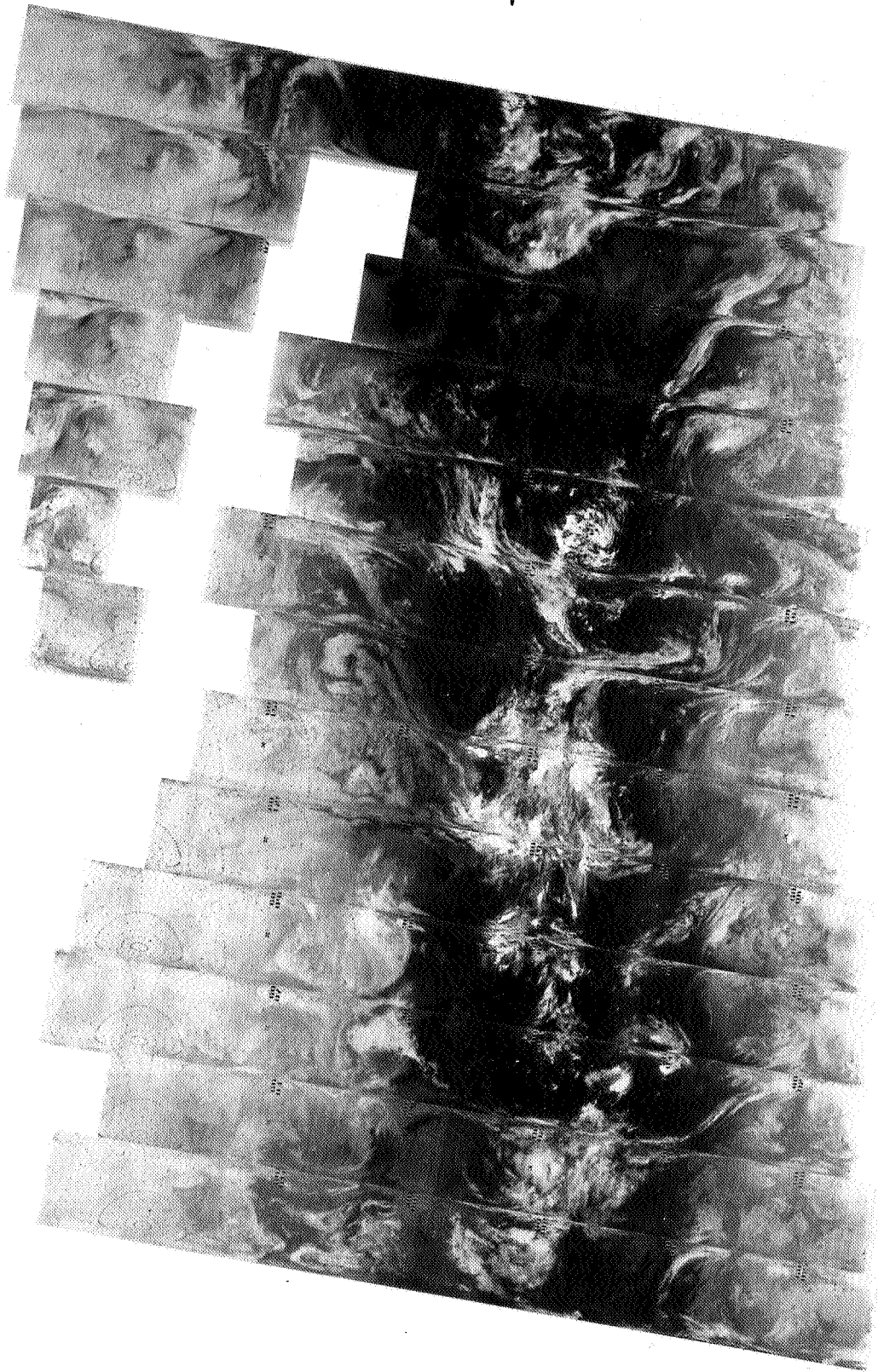




5741 5740 5739 5738 5737 5736 5735 5734 5733 5732 5731 5730 5729 5728

11 FEBRUARY 1974

6.7 μ m



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

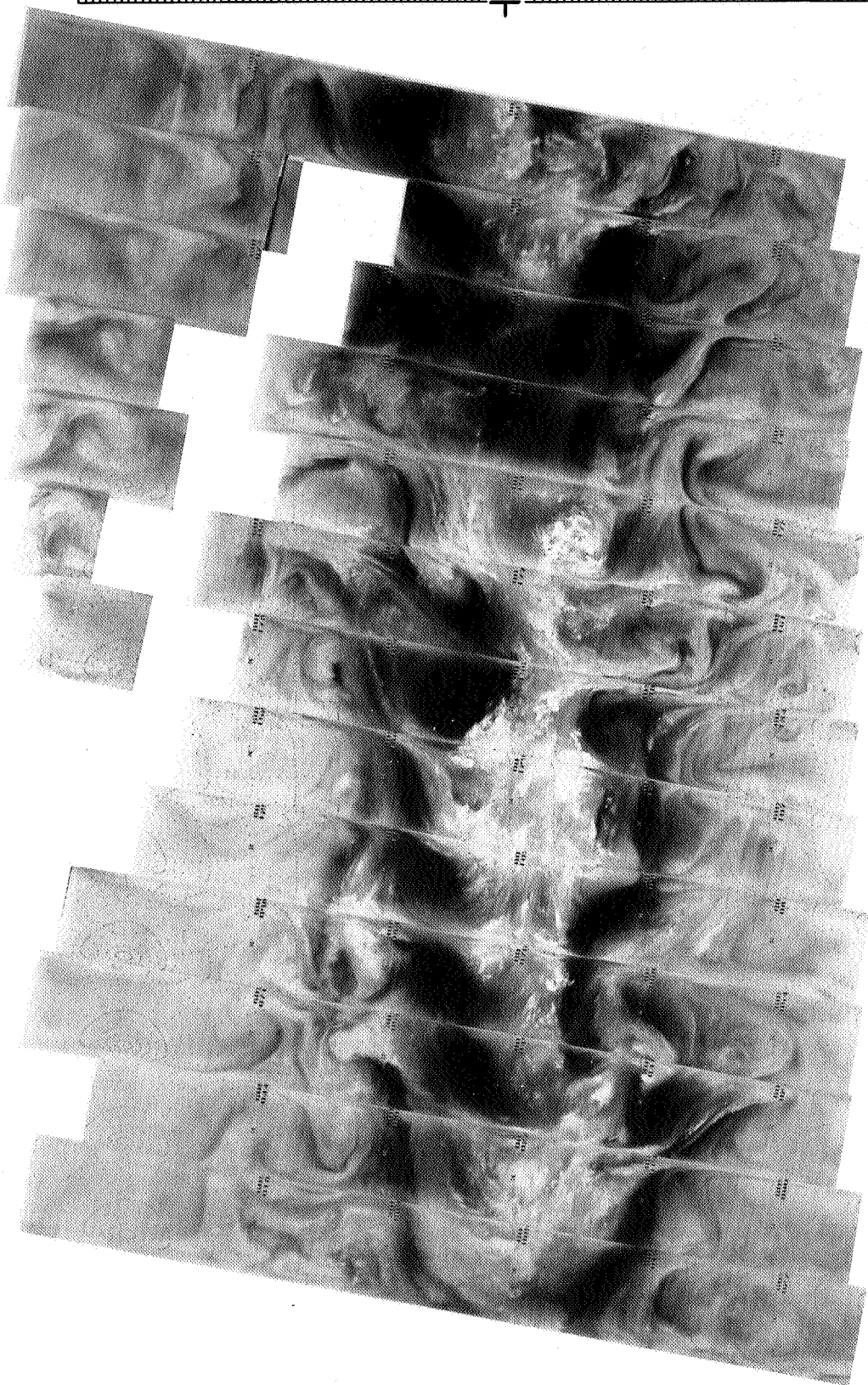
5754 5753 5752 5751 5750 5749 5748 5747 5746 5745 5744 5743 5742

12 FEBRUARY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

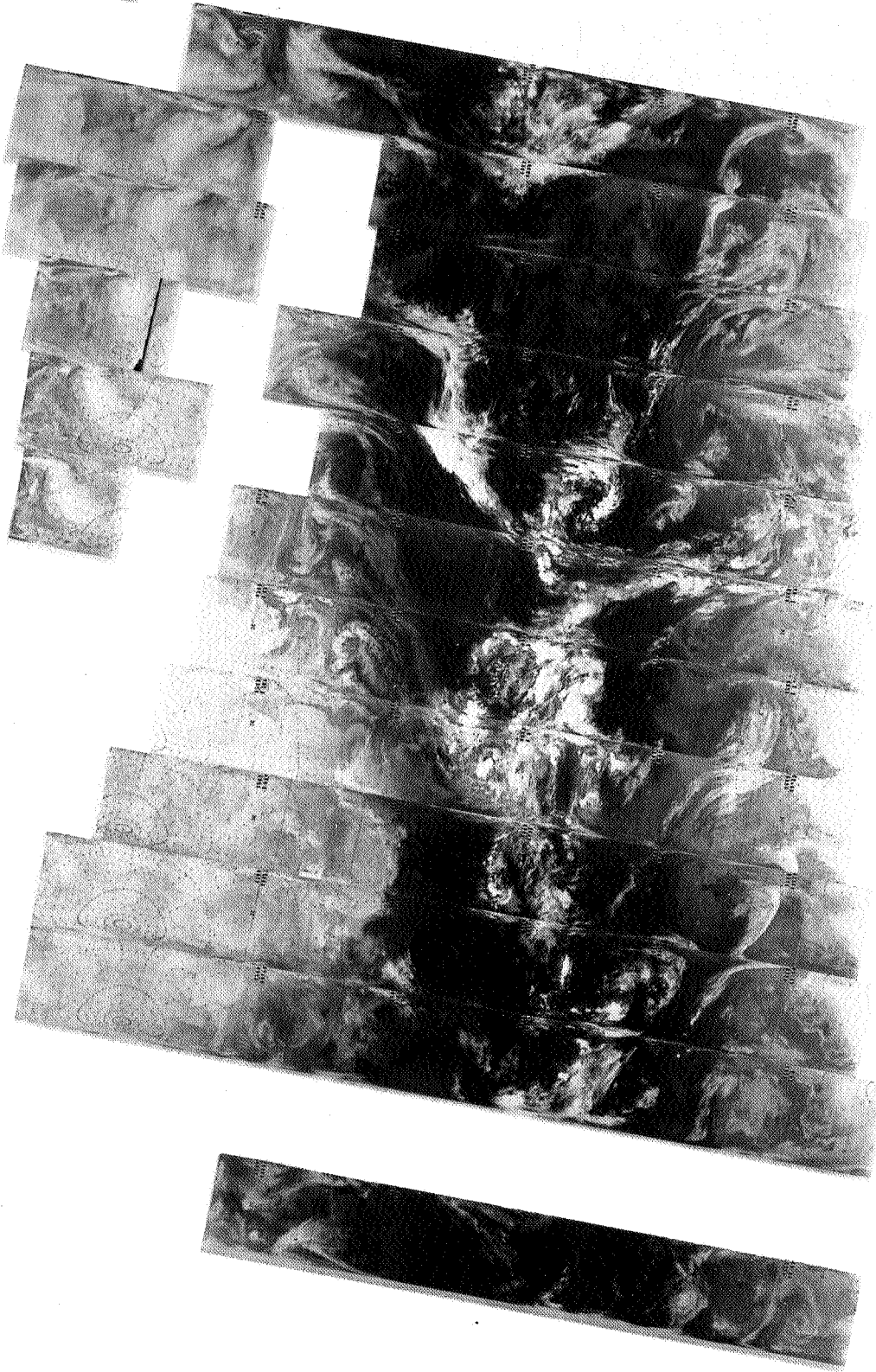
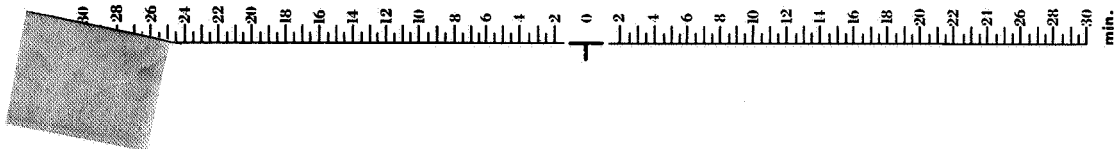


5754 5753 5752 5751 5750 5749 5748 5747 5746 5745 5744 5743 5742

12 FEBRUARY 1974

6.7 μ m

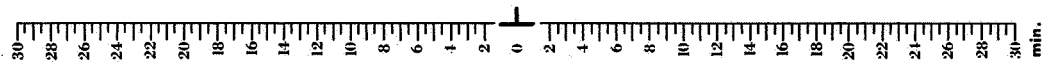
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

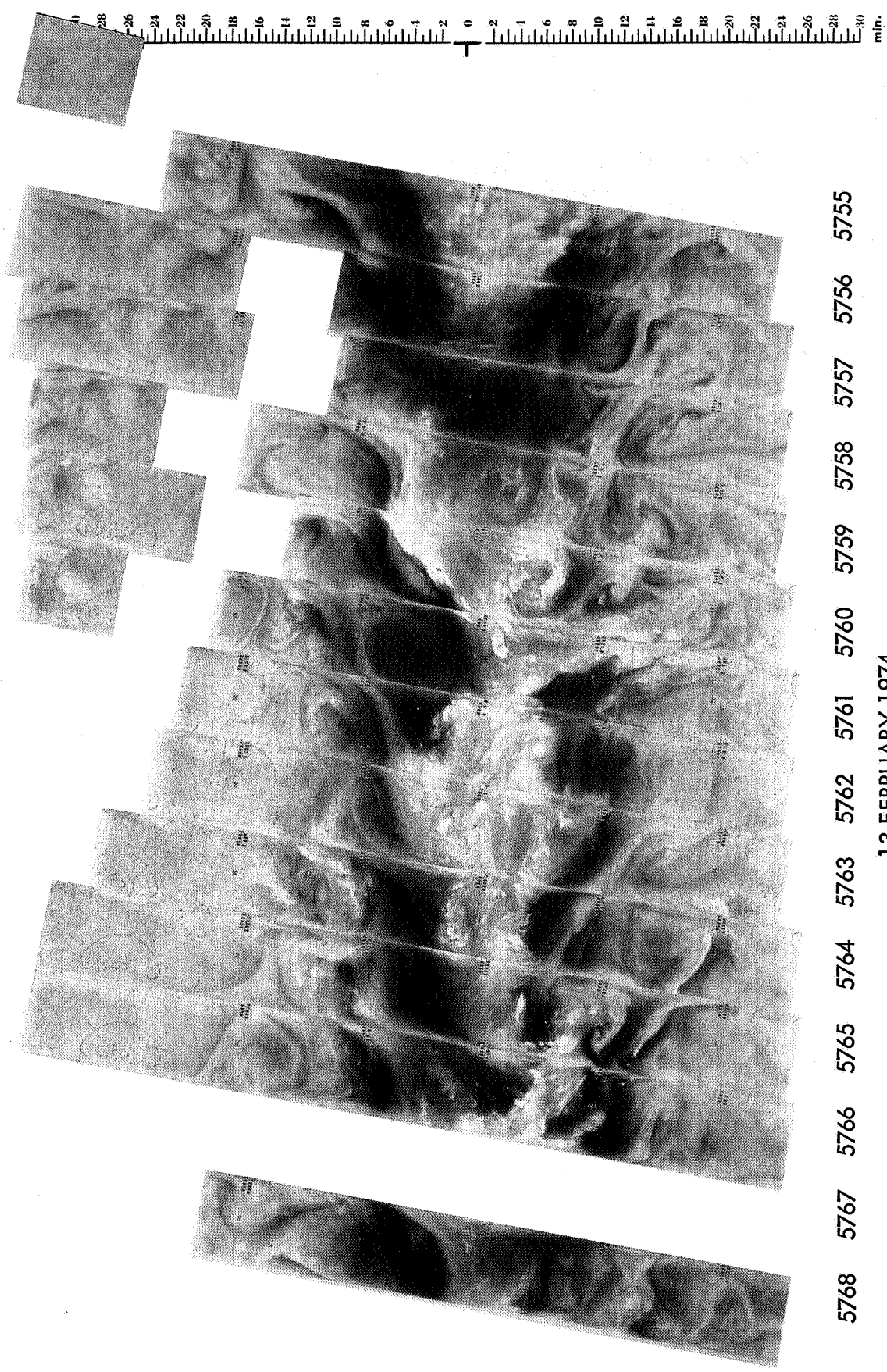


5768 5767 5766 5765 5764 5763 5762 5761 5760 5759 5758 5757 5756 5755

13 FEBRUARY 1974

11.5 μ m

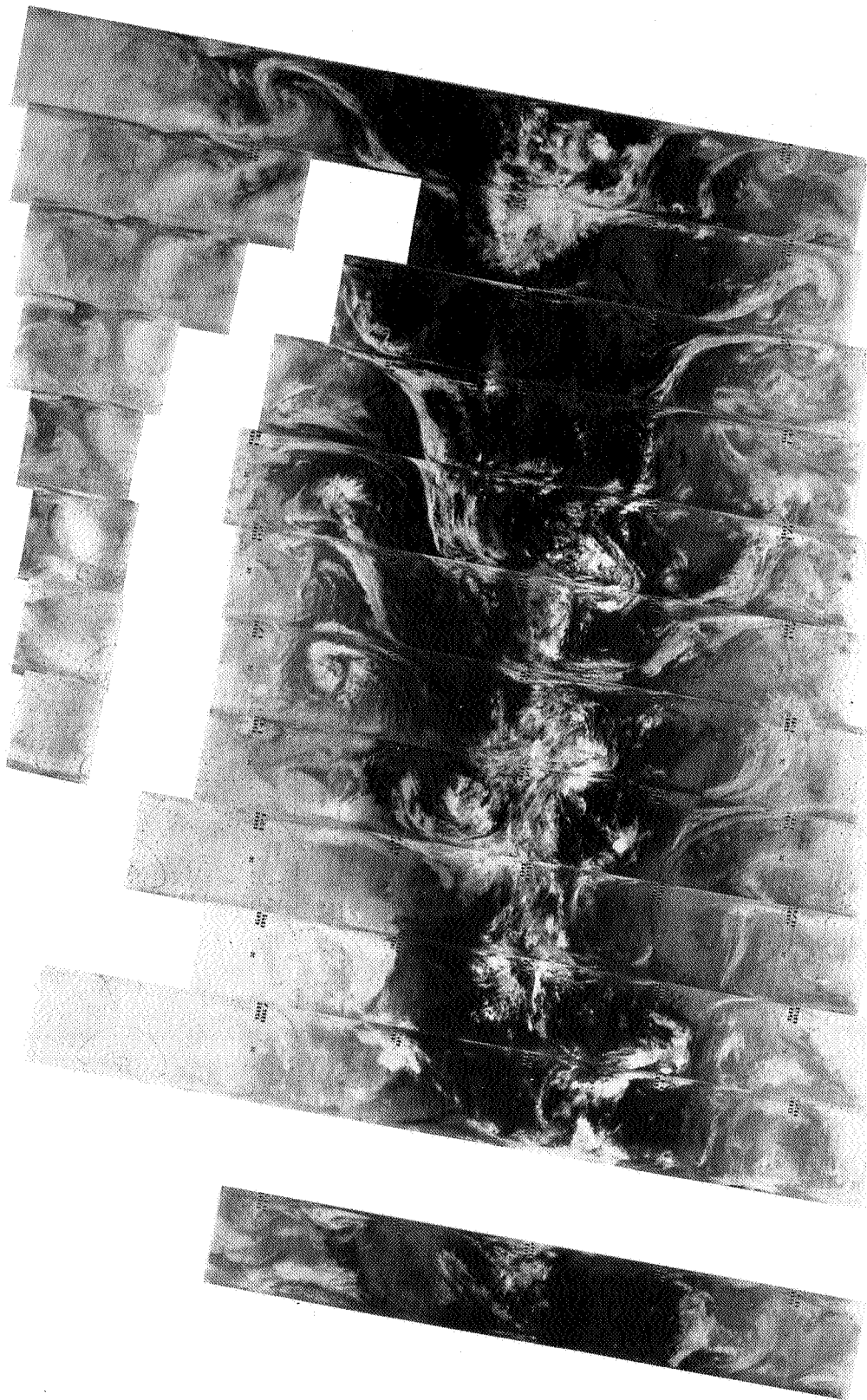




13 FEBRUARY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

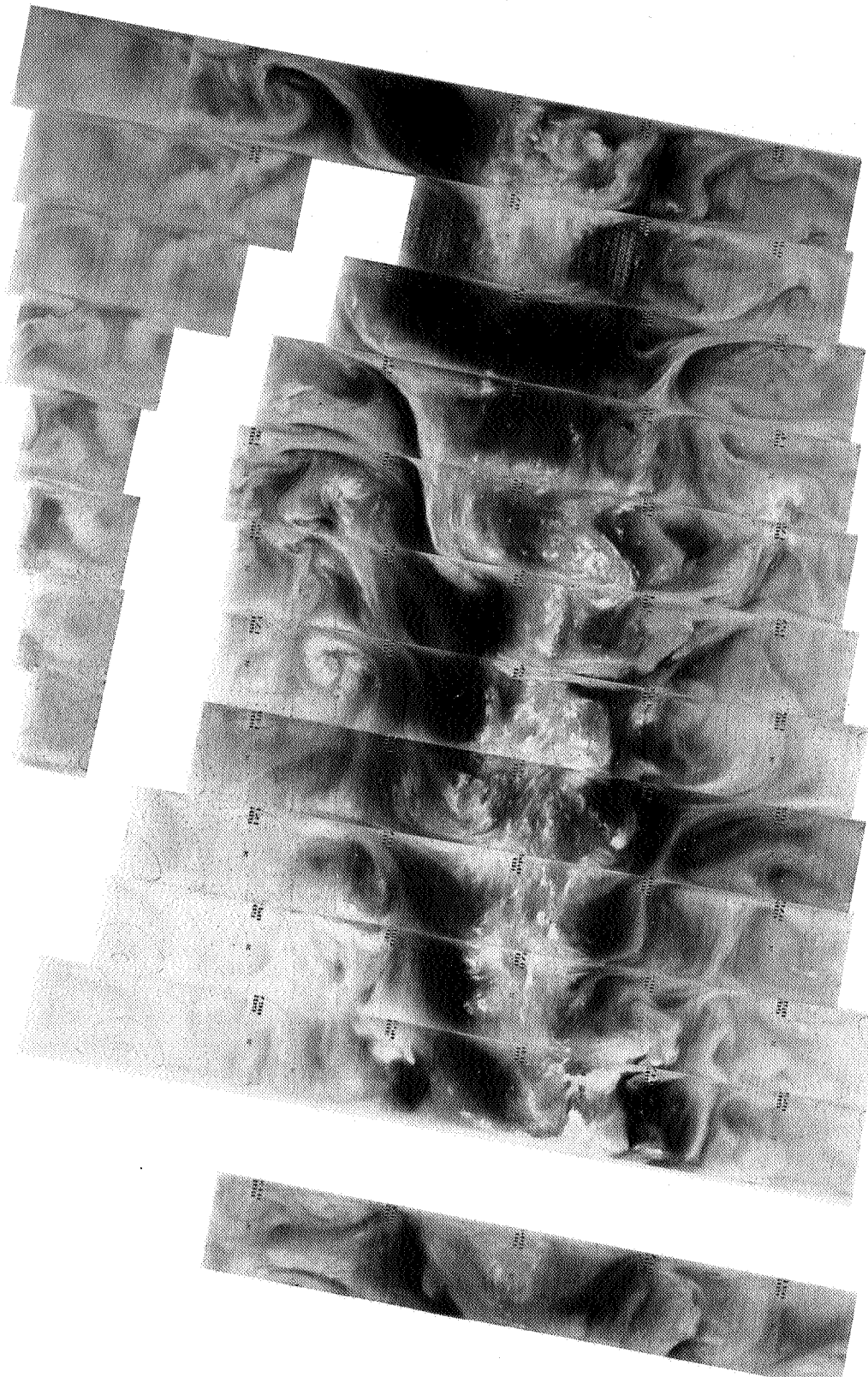


5781 5780 5779 5778 5777 5776 5775 5774 5773 5772 5771 5770 5769

14 FEBRUARY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



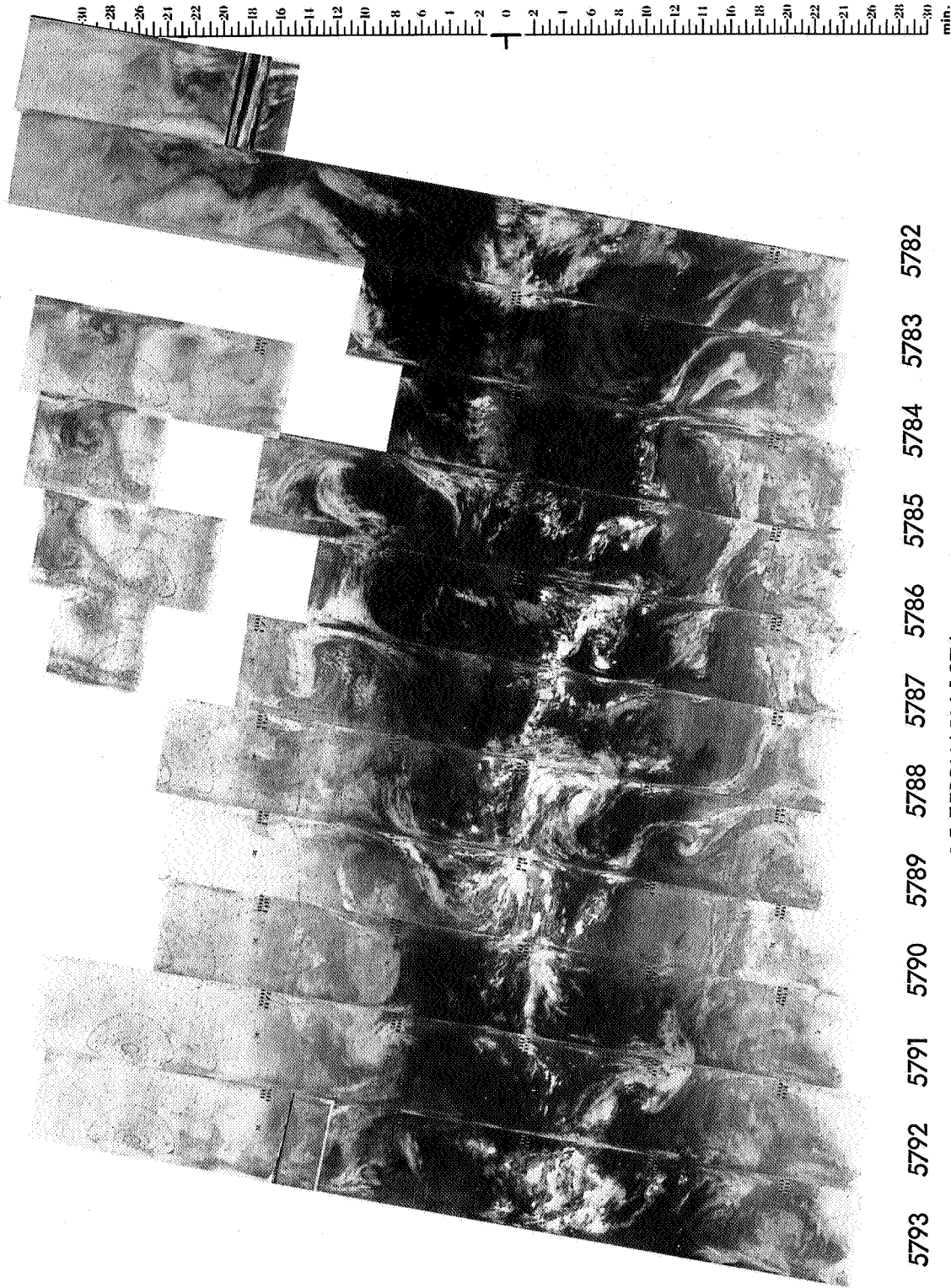
5781 5780 5779 5778 5777 5776 5775 5774 5773 5772 5771 5770 5769

14 FEBRUARY 1974

6.7 μm

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

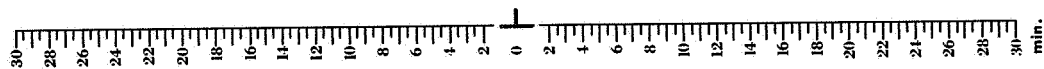
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

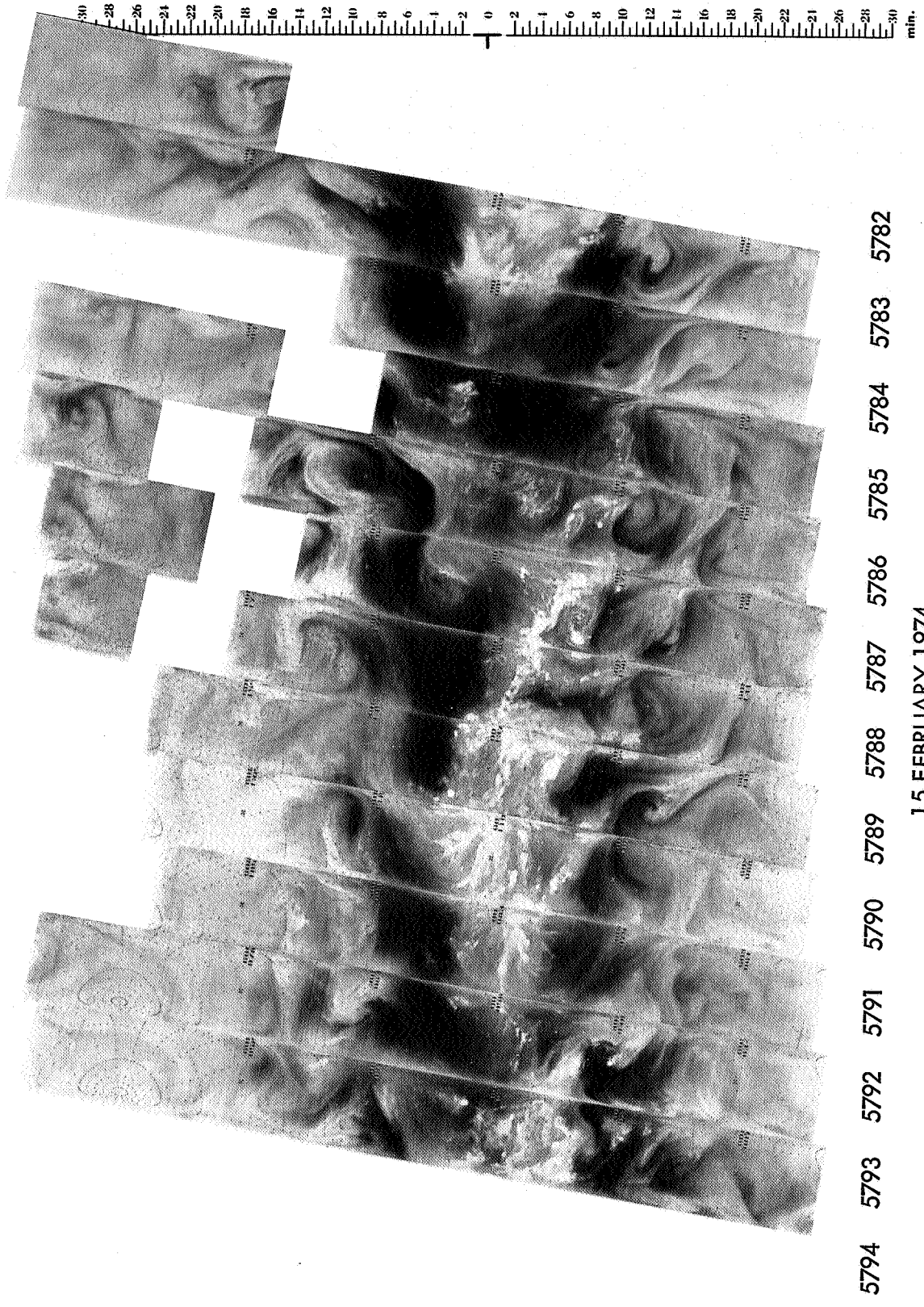


5794 5793 5792 5791 5790 5789 5788 5787 5786 5785 5784 5783 5782

15 FEBRUARY 1974

11.5 μ m

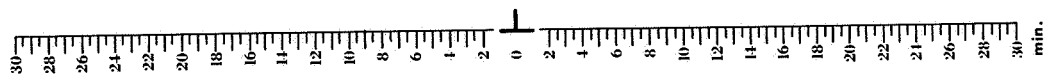
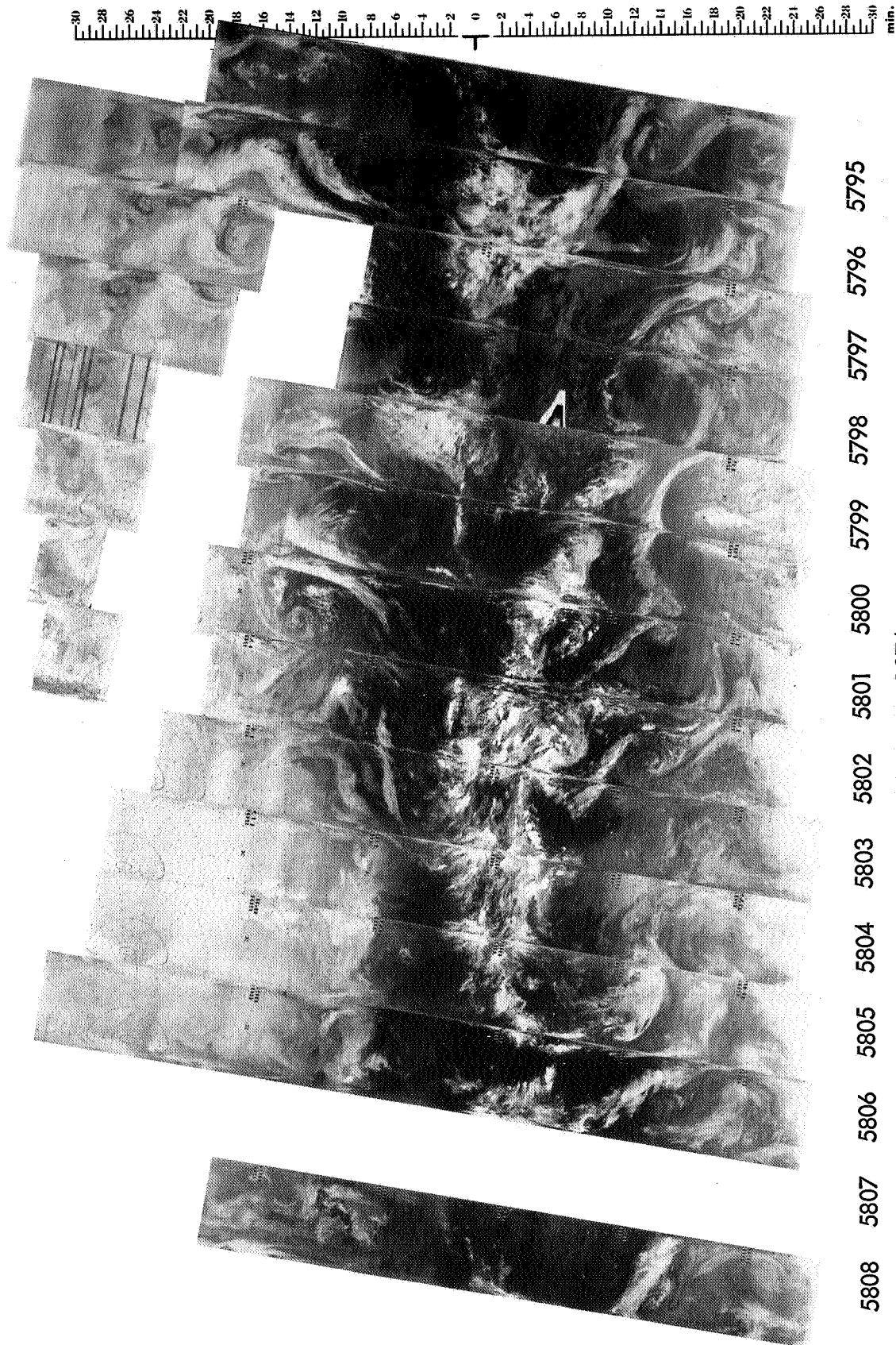


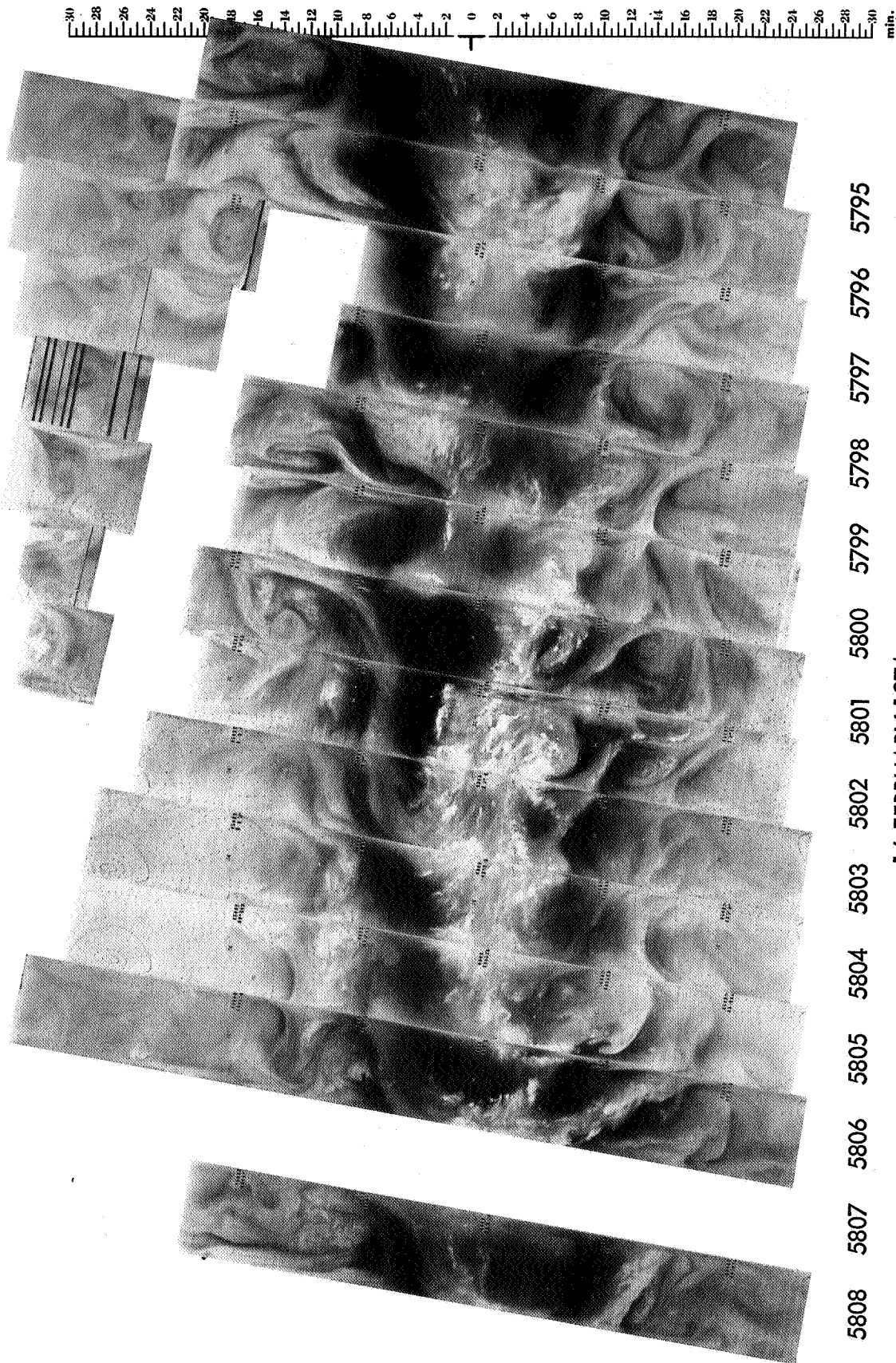


5794 5793 5792 5791 5790 5789 5788 5787 5786 5785 5784 5783 5782

15 FEBRUARY 1974

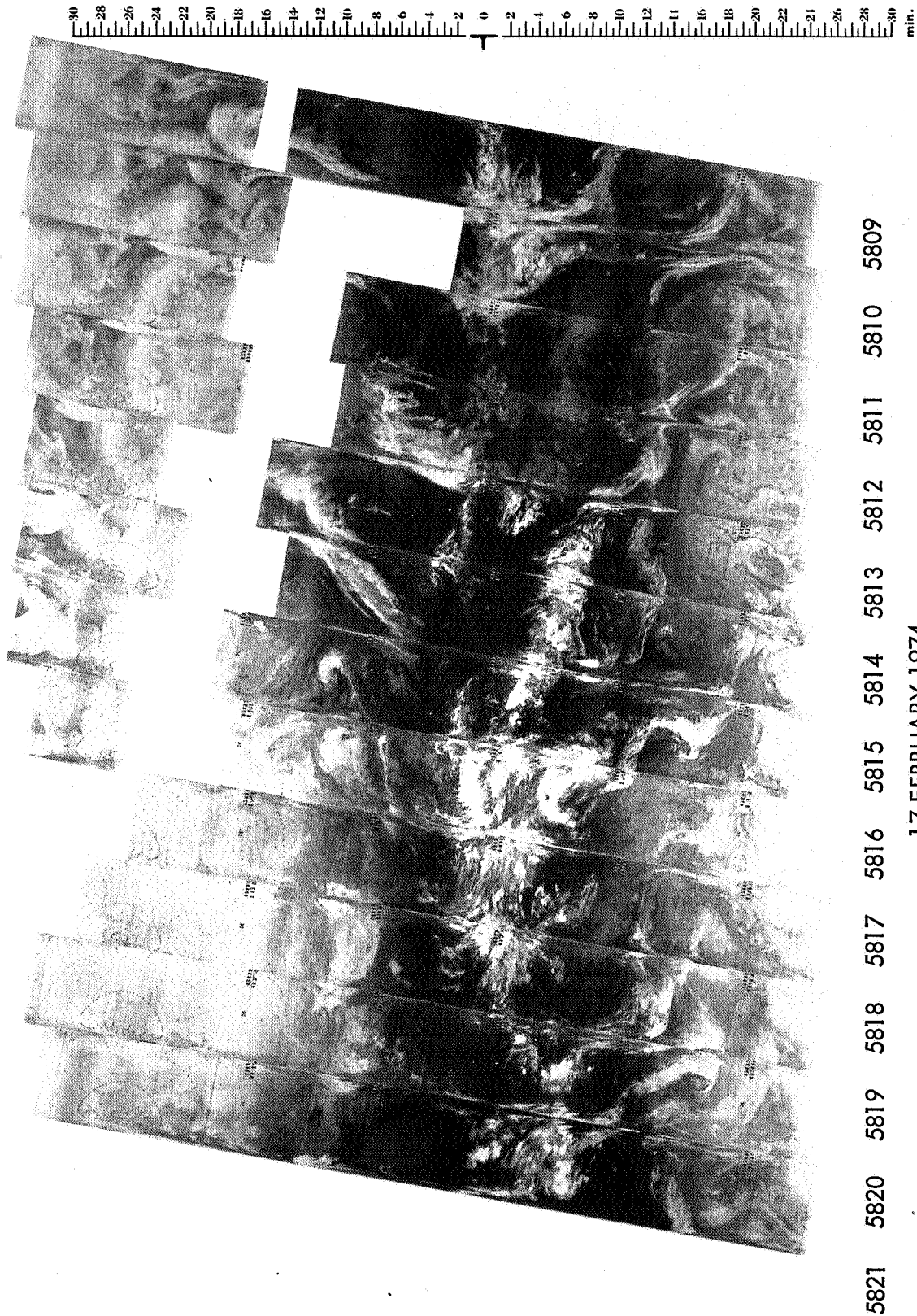
6.7 μ m





16 FEBRUARY 1974

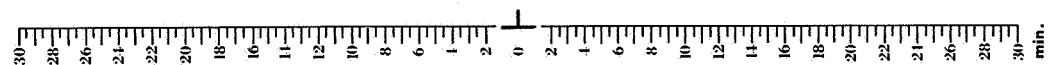
6.7 μ m

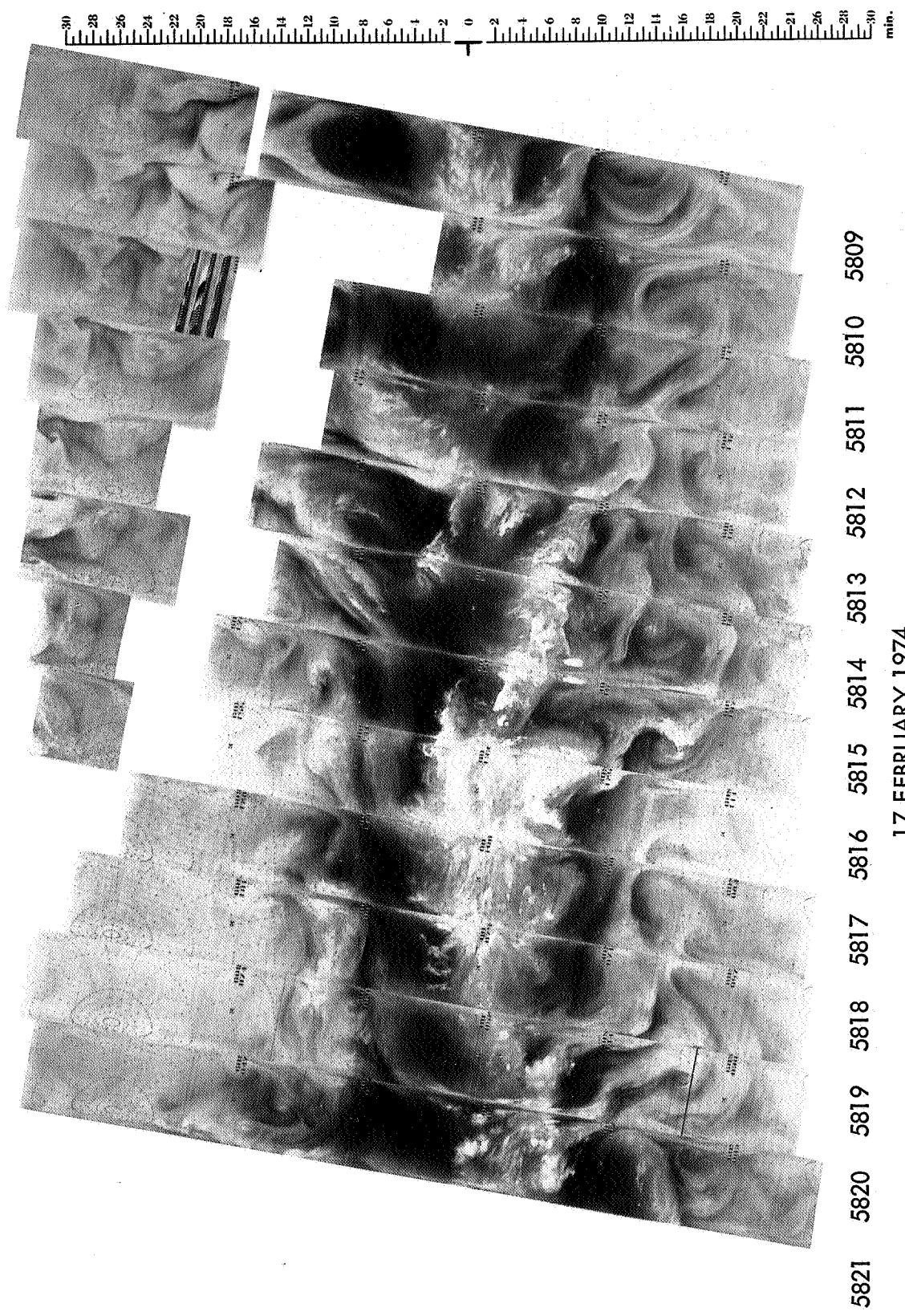


5821 5820 5819 5818 5817 5816 5815 5814 5813 5812 5811 5810 5809

17 FEBRUARY 1974

11.5 μ m

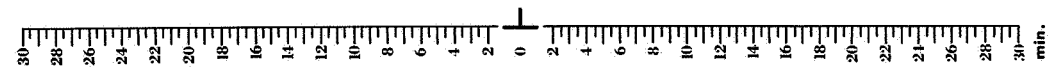


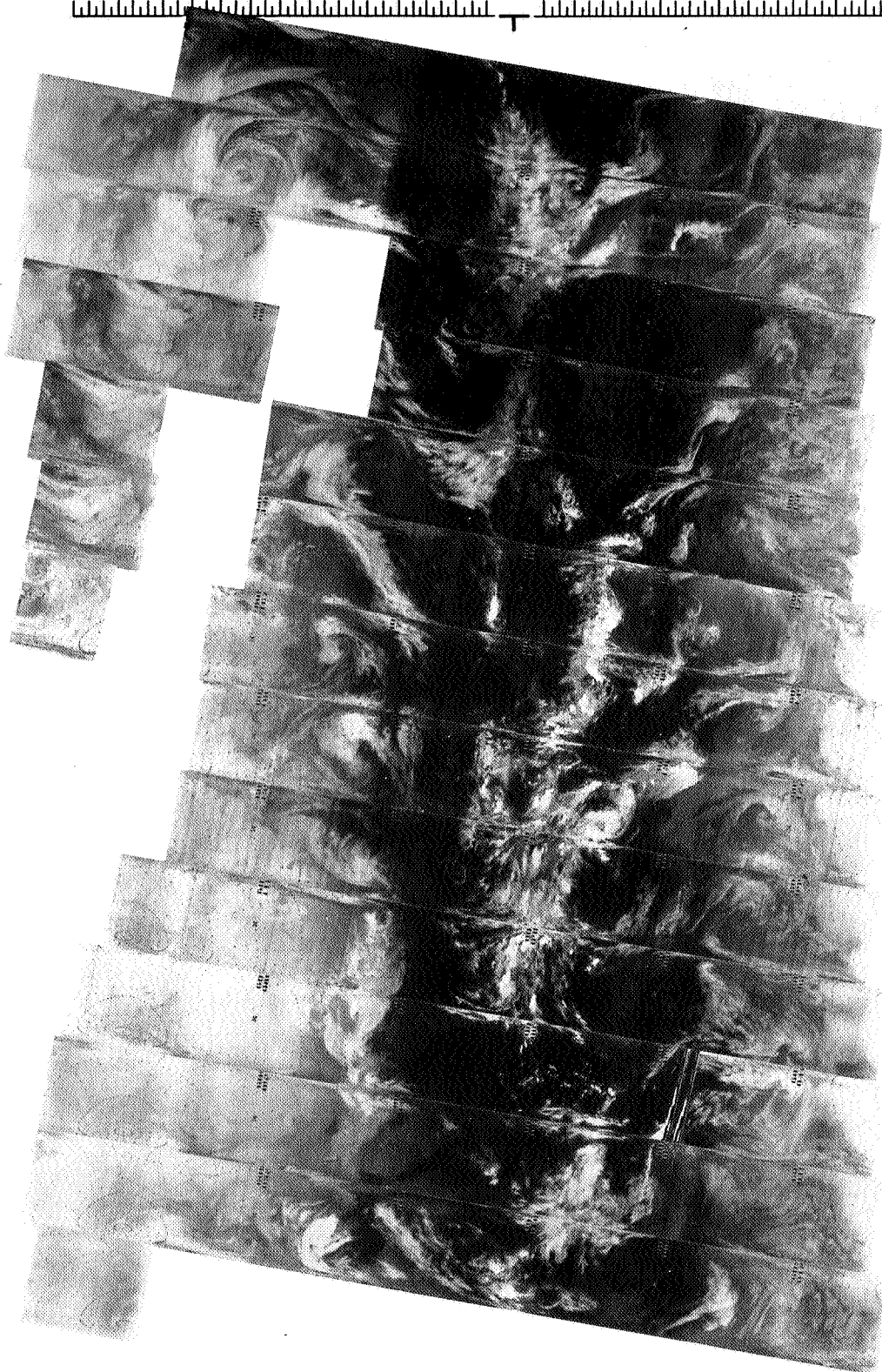
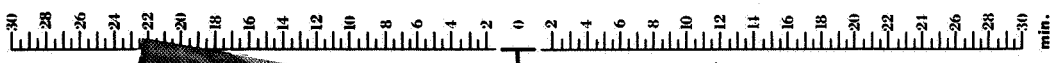


5821 5820 5819 5818 5817 5816 5815 5814 5813 5812 5811 5810 5809

17 FEBRUARY 1974

6.7 μ m

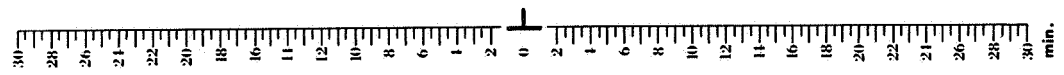




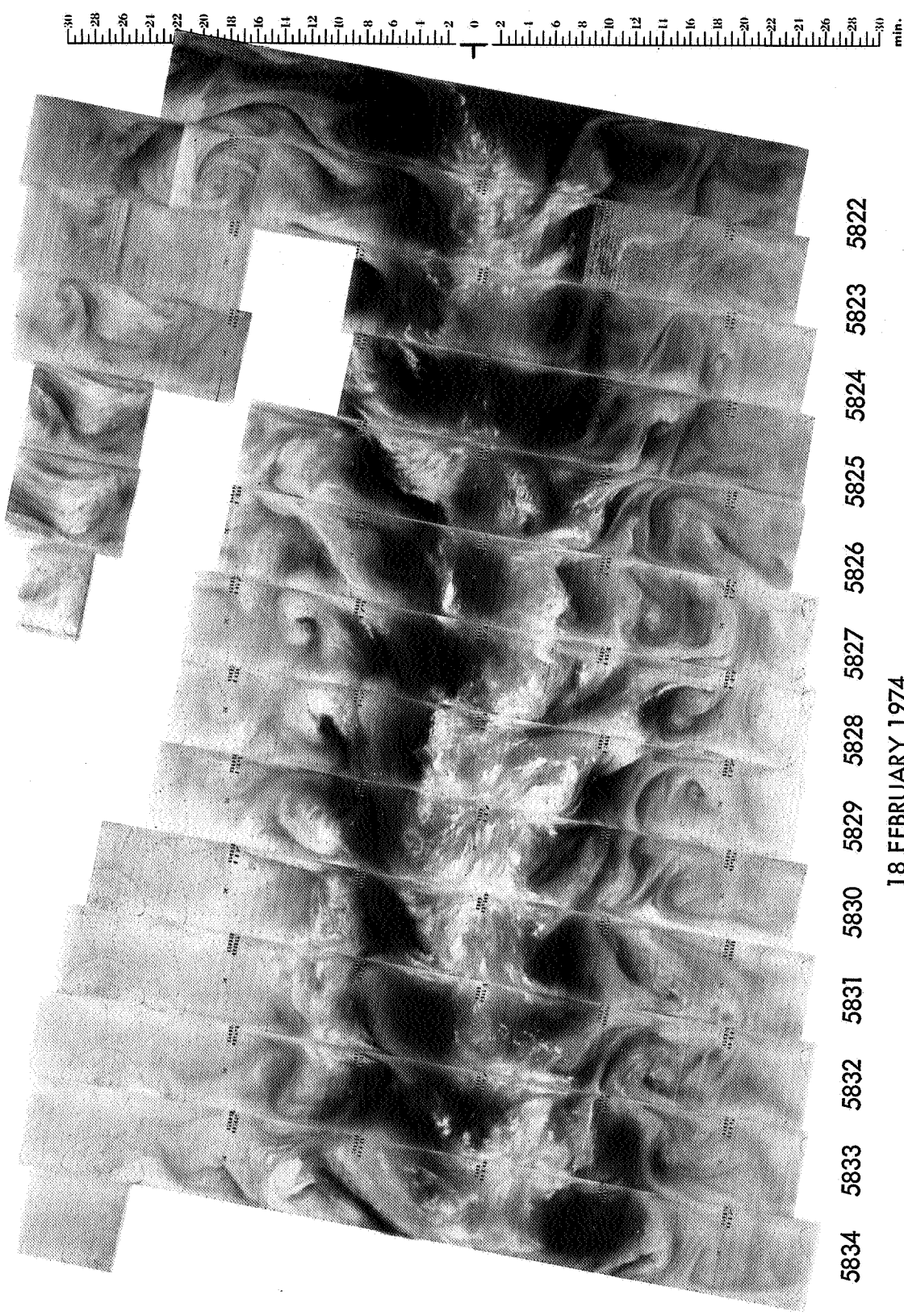
5835 5834 5833 5832 5831 5830 5829 5828 5827 5826 5825 5824 5823 5822

18 FEBRUARY 1974

11.5 μ m



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



5835 5834 5833 5832 5831 5830 5829 5828 5827 5826 5825 5824 5823 5822

18 FEBRUARY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

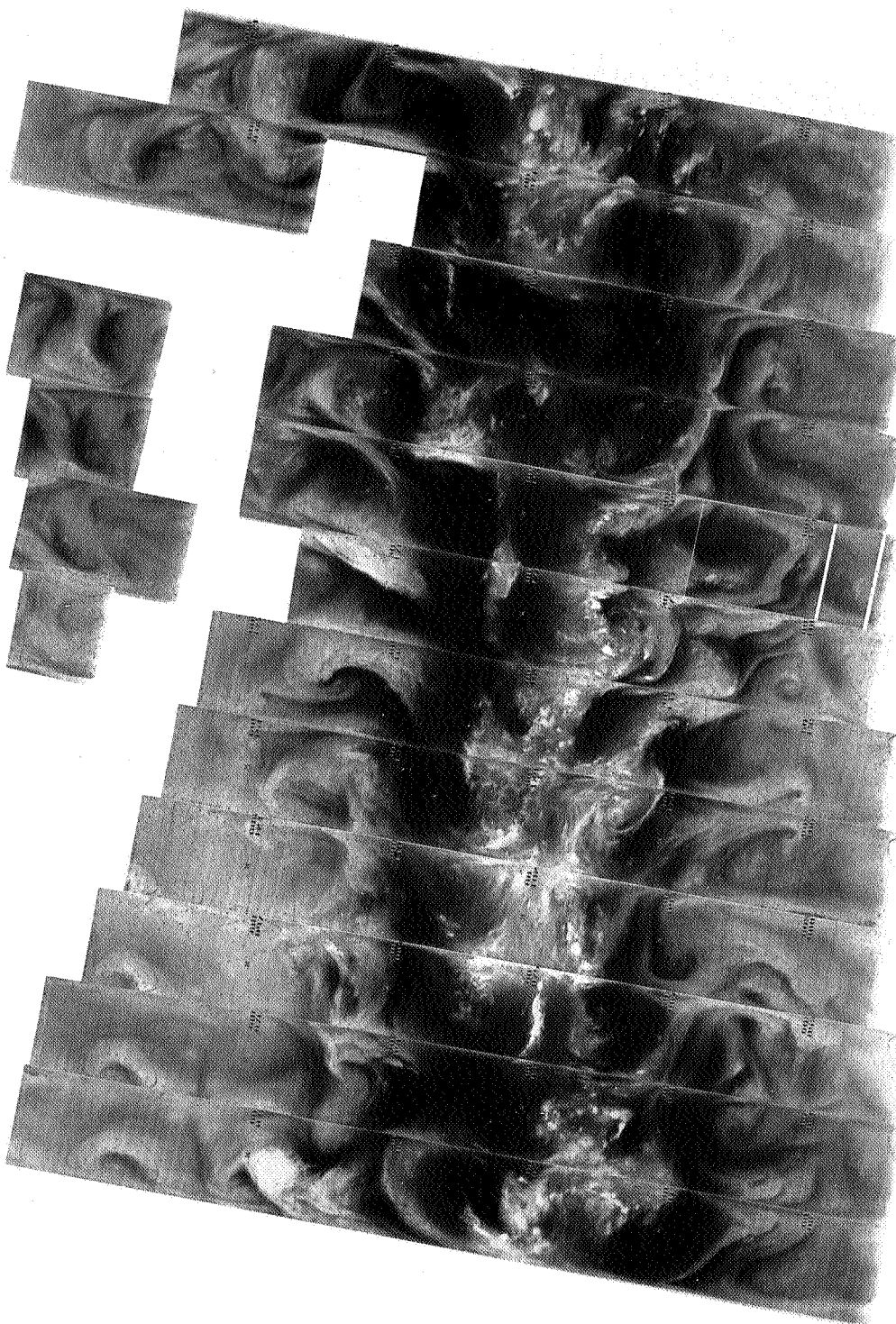


5848 5847 5846 5845 5844 5843 5842 5841 5840 5839 5838 5837 5836

19 FEBRUARY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



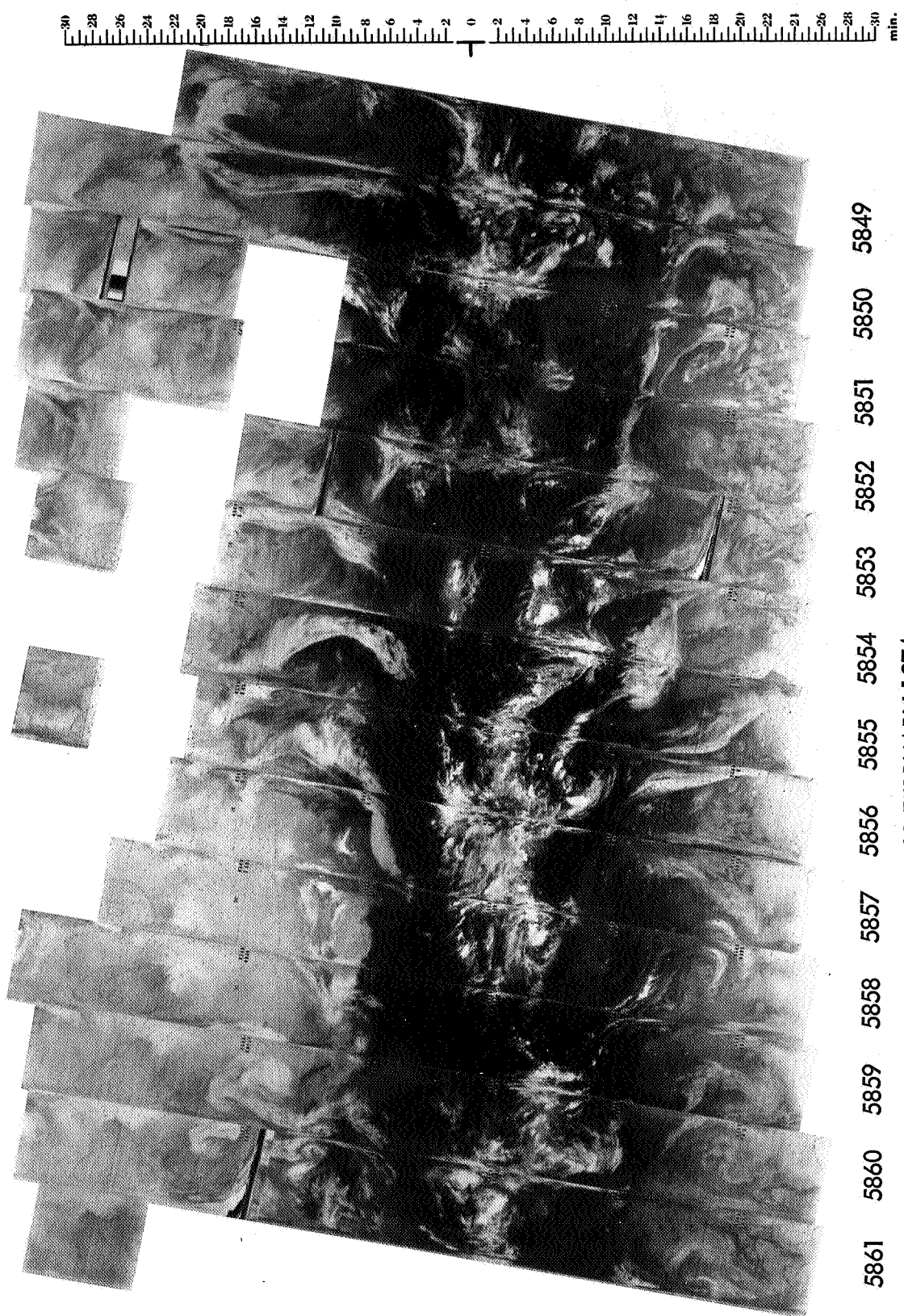
5848 5847 5846 5845 5844 5843 5842 5841 5840 5839 5838 5837 5836

19 FEBRUARY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



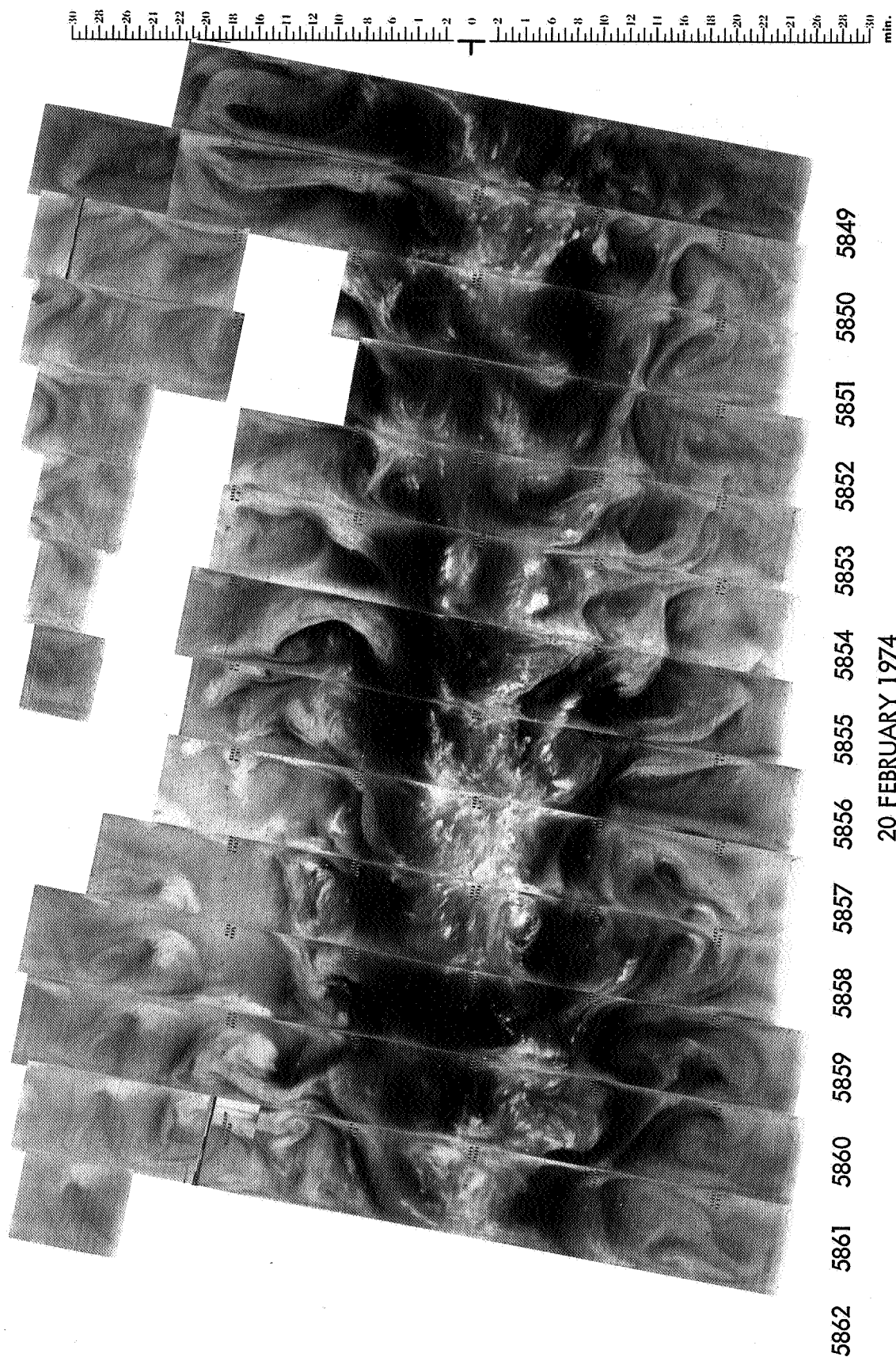
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

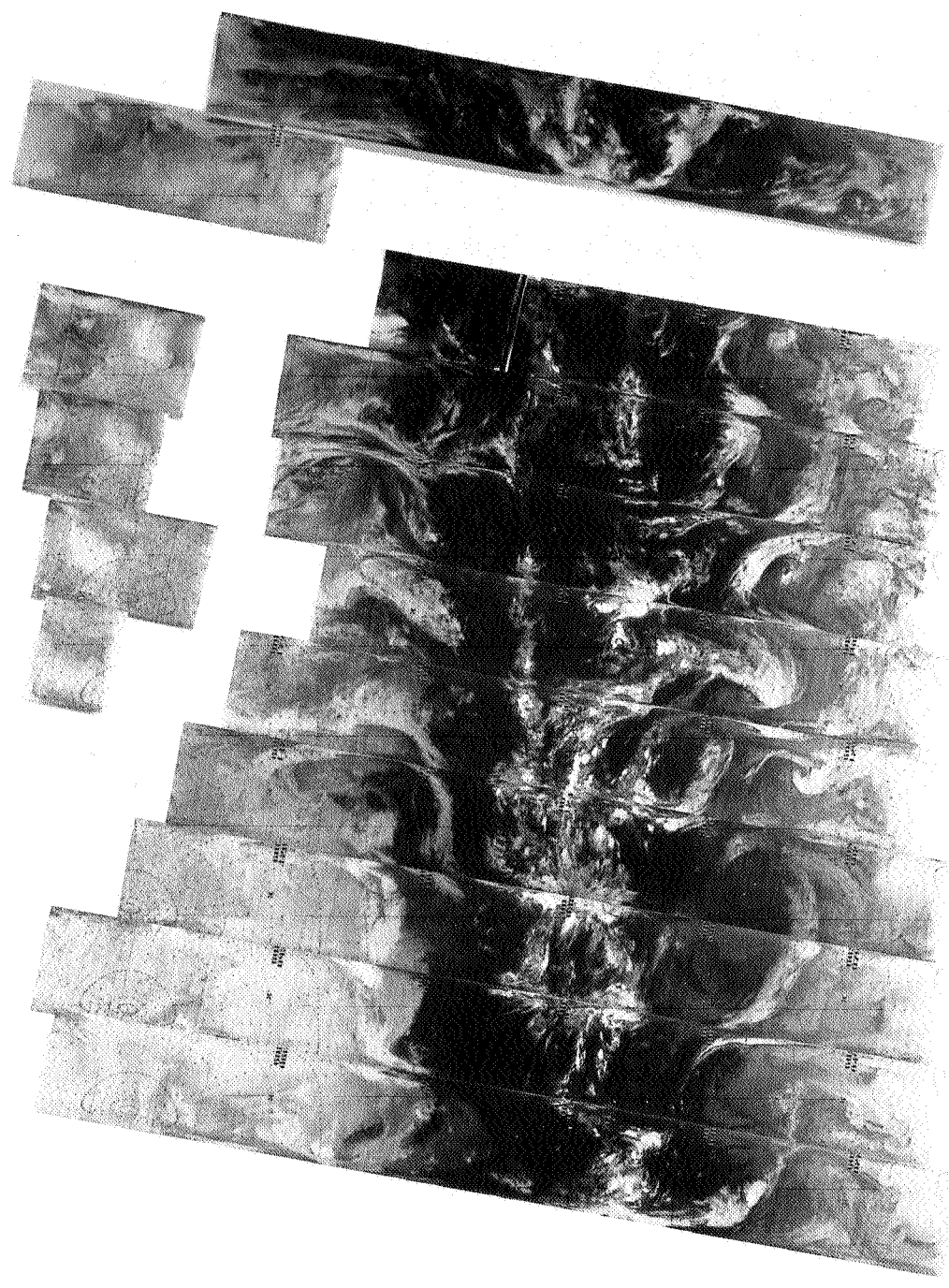
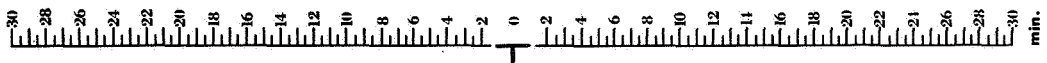
5862 5861 5860 5859 5858 5857 5856 5855 5854 5853 5852 5851 5850 5849

20 FEBRUARY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

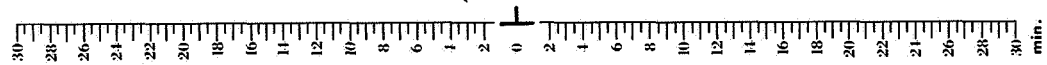




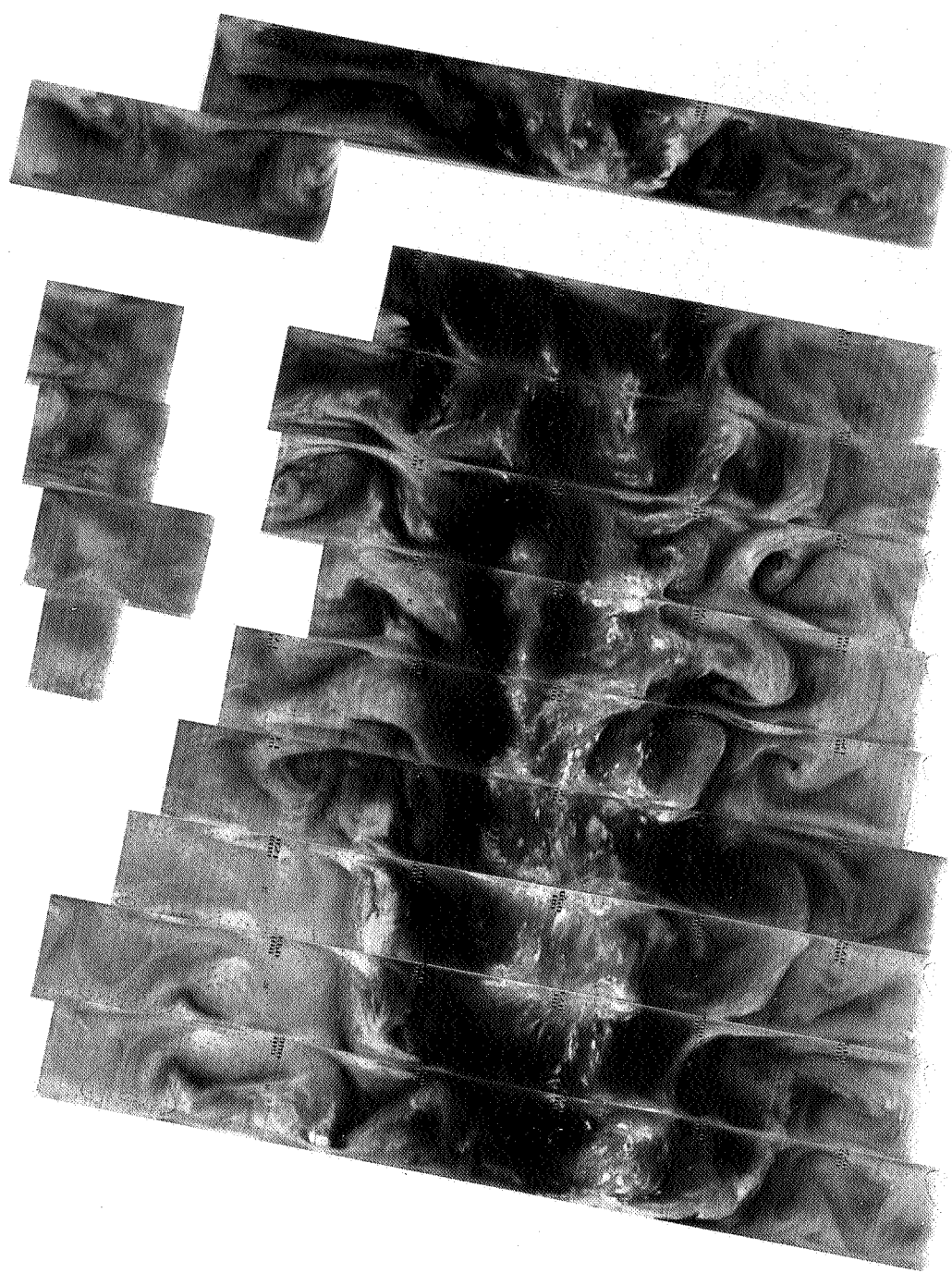
5875 5874 5873 5872 5871 5870 5869 5868 5867 5866 5865 5864 5863

21 FEBRUARY 1974

11.5 μ m



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

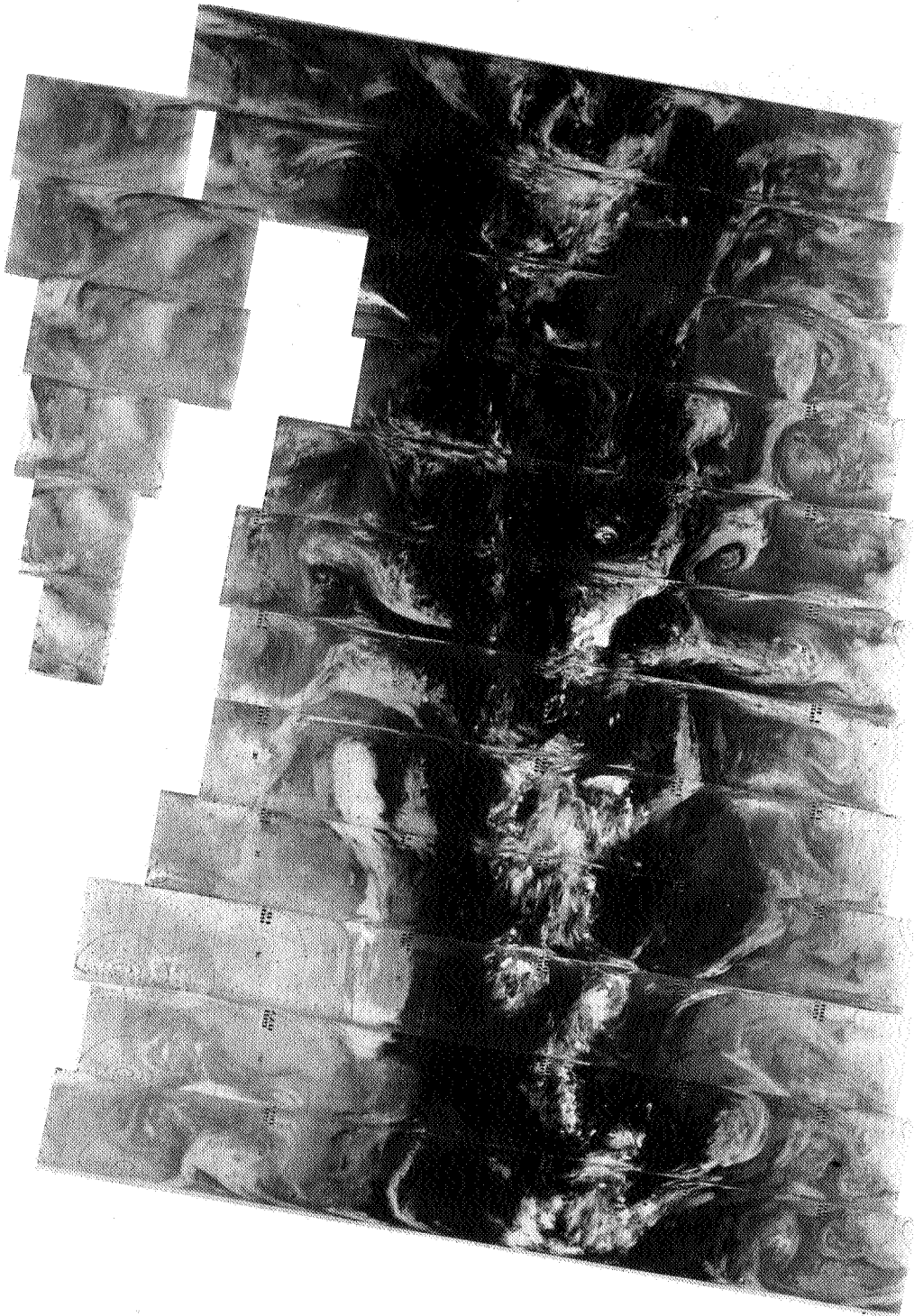


5875 5874 5873 5872 5871 5870 5869 5868 5867 5866 5865 5864 5863

21 FEBRUARY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

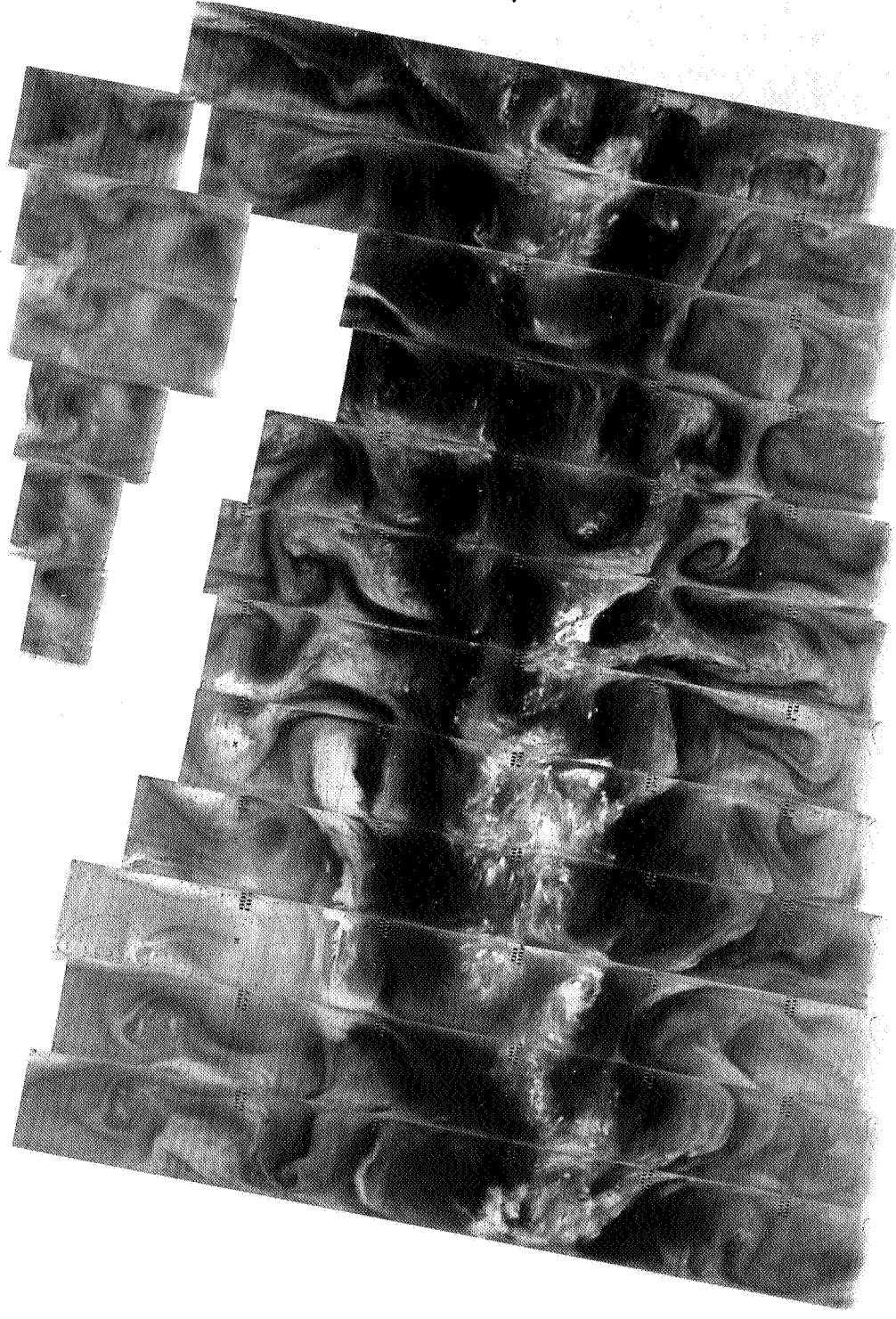
5888 5887 5886 5885 5884 5883 5882 5881 5880 5879 5878 5877 5876

22 FEBRUARY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

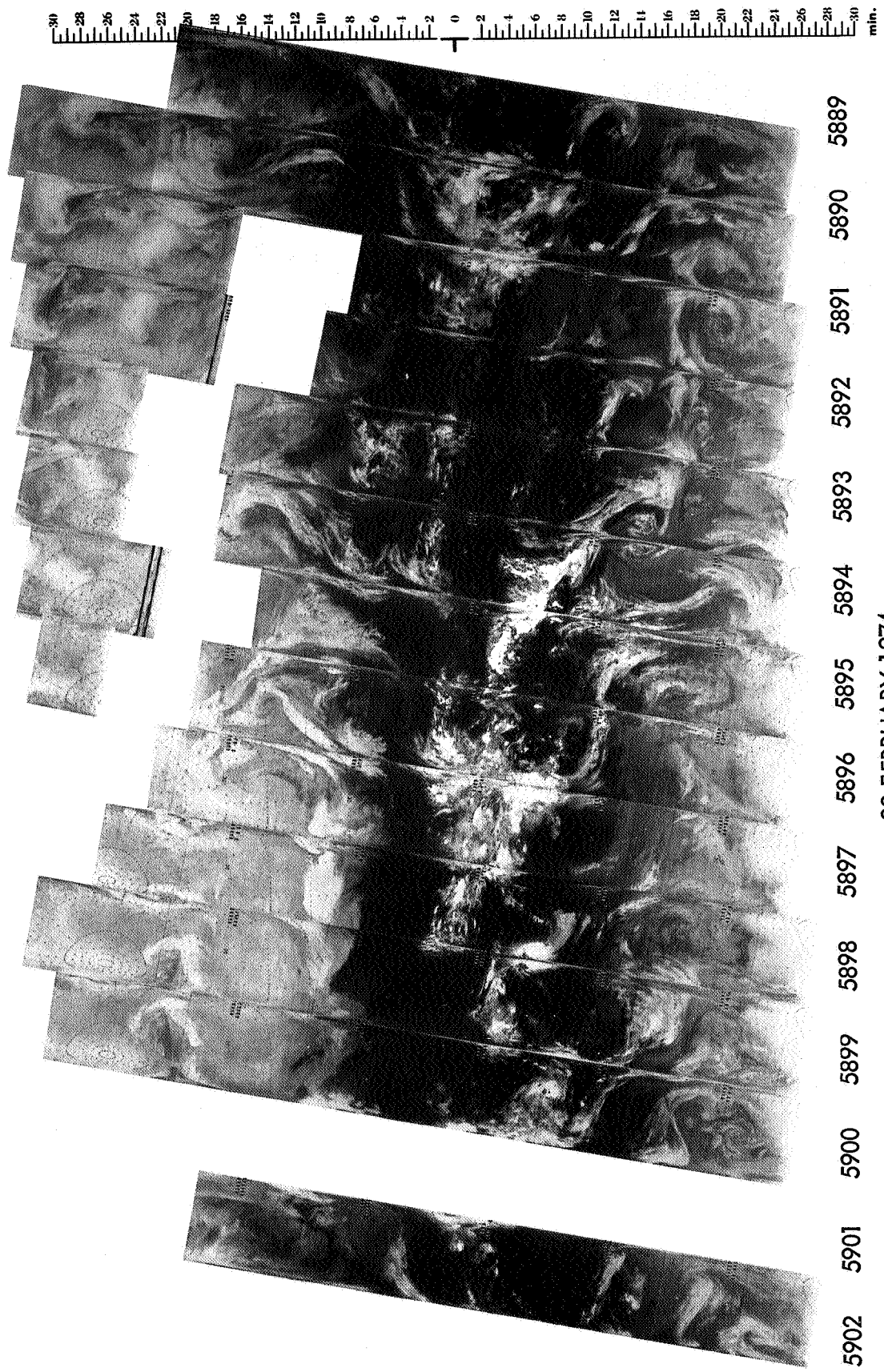


5888 5887 5886 5885 5884 5883 5882 5881 5880 5879 5878 5877 5876

22 FEBRUARY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

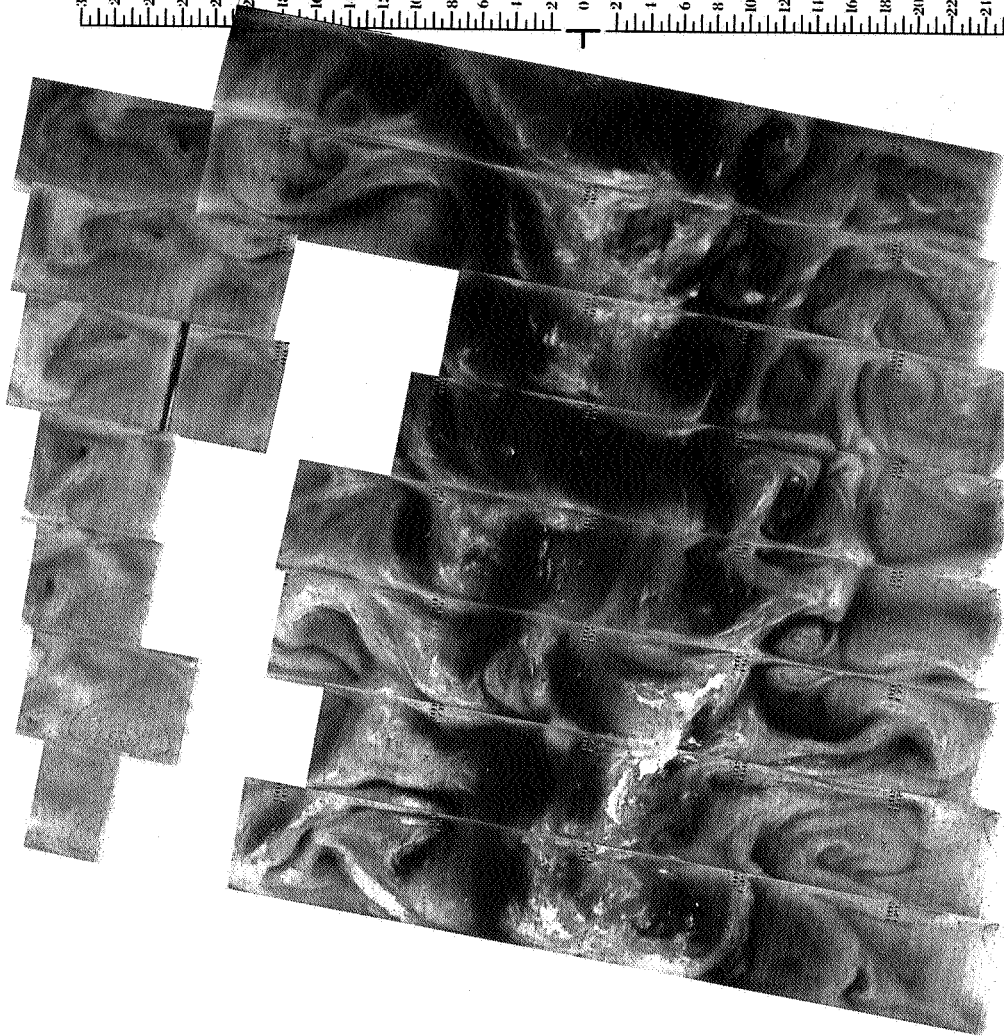
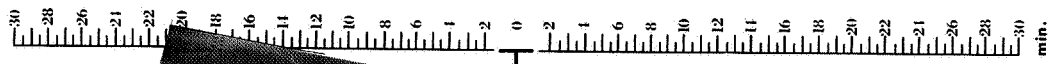


5902 5901 5900 5899 5898 5897 5896 5895 5894 5893 5892 5891 5890 5889

23 FEBRUARY 1974

11.5 μ m

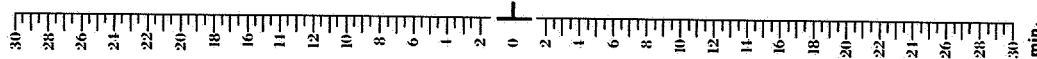
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



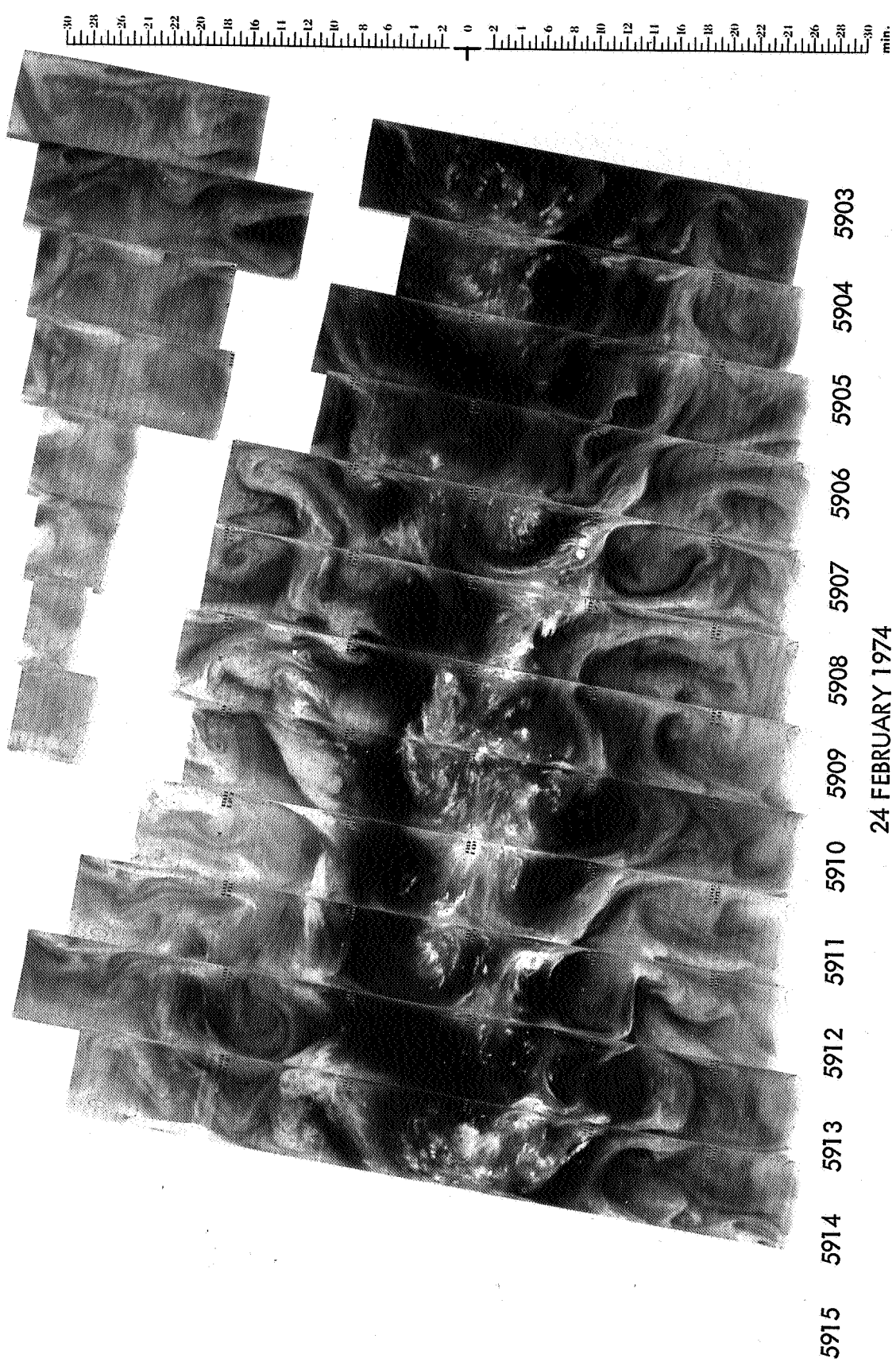
5902 5901 5900 5899 5898 5897 5896 5895 5894 5893 5892 5891 5890 5889

23 FEBRUARY 1974

6.7 μ m



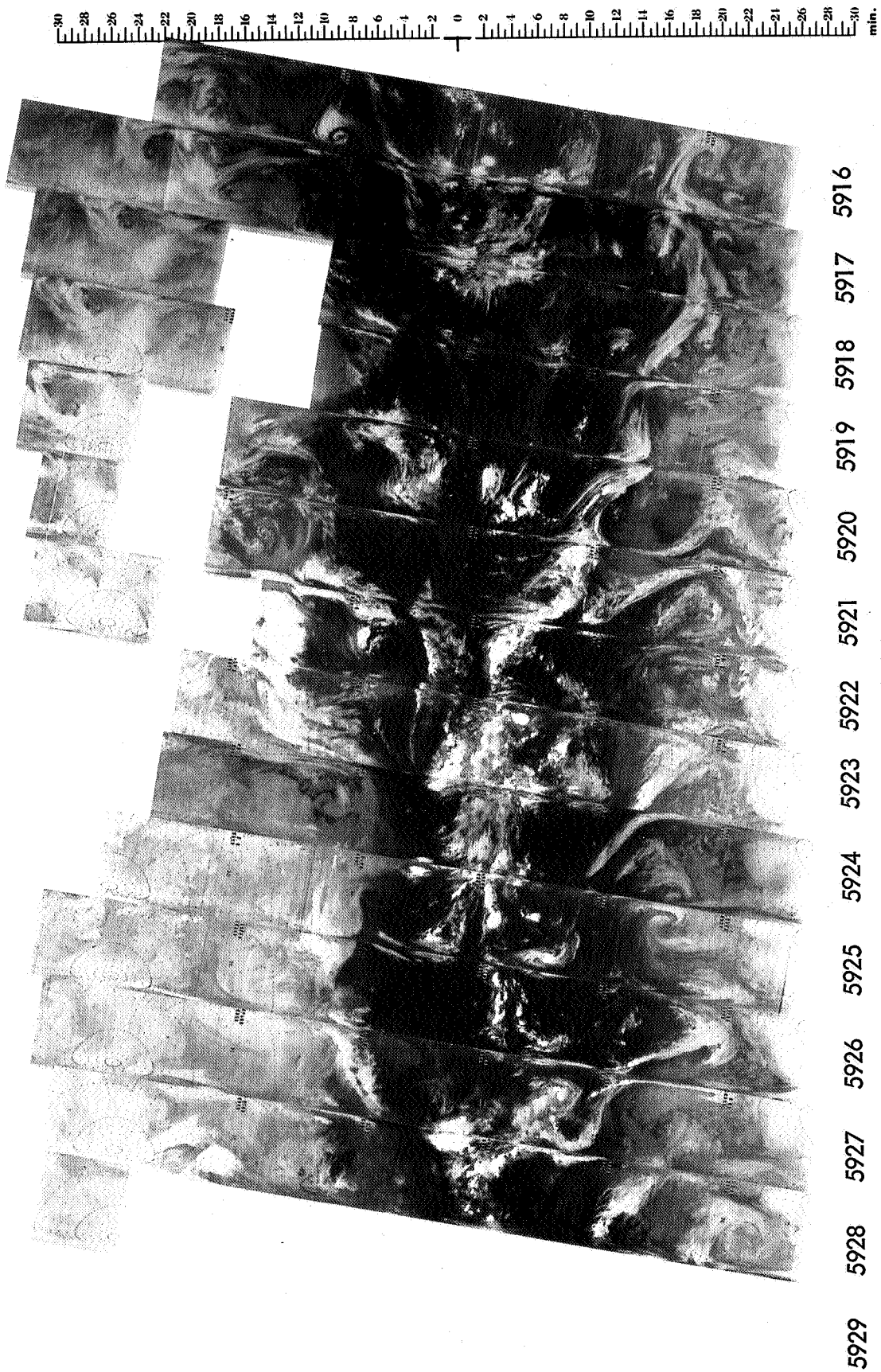




5915 5914 5913 5912 5911 5910 5909 5908 5907 5906 5905 5904 5903

24 FEBRUARY 1974

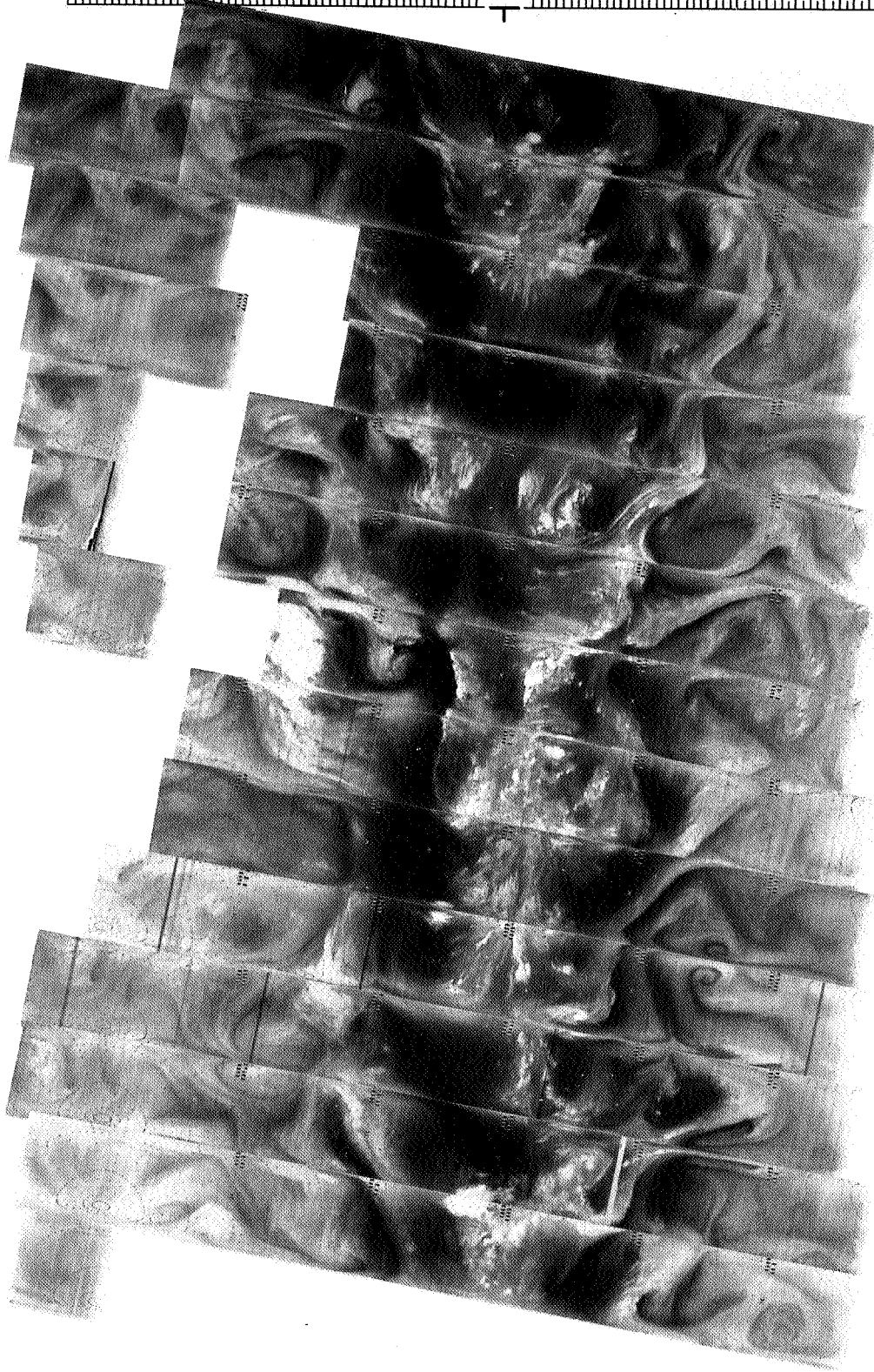
6.7 μm



25 FEBRUARY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

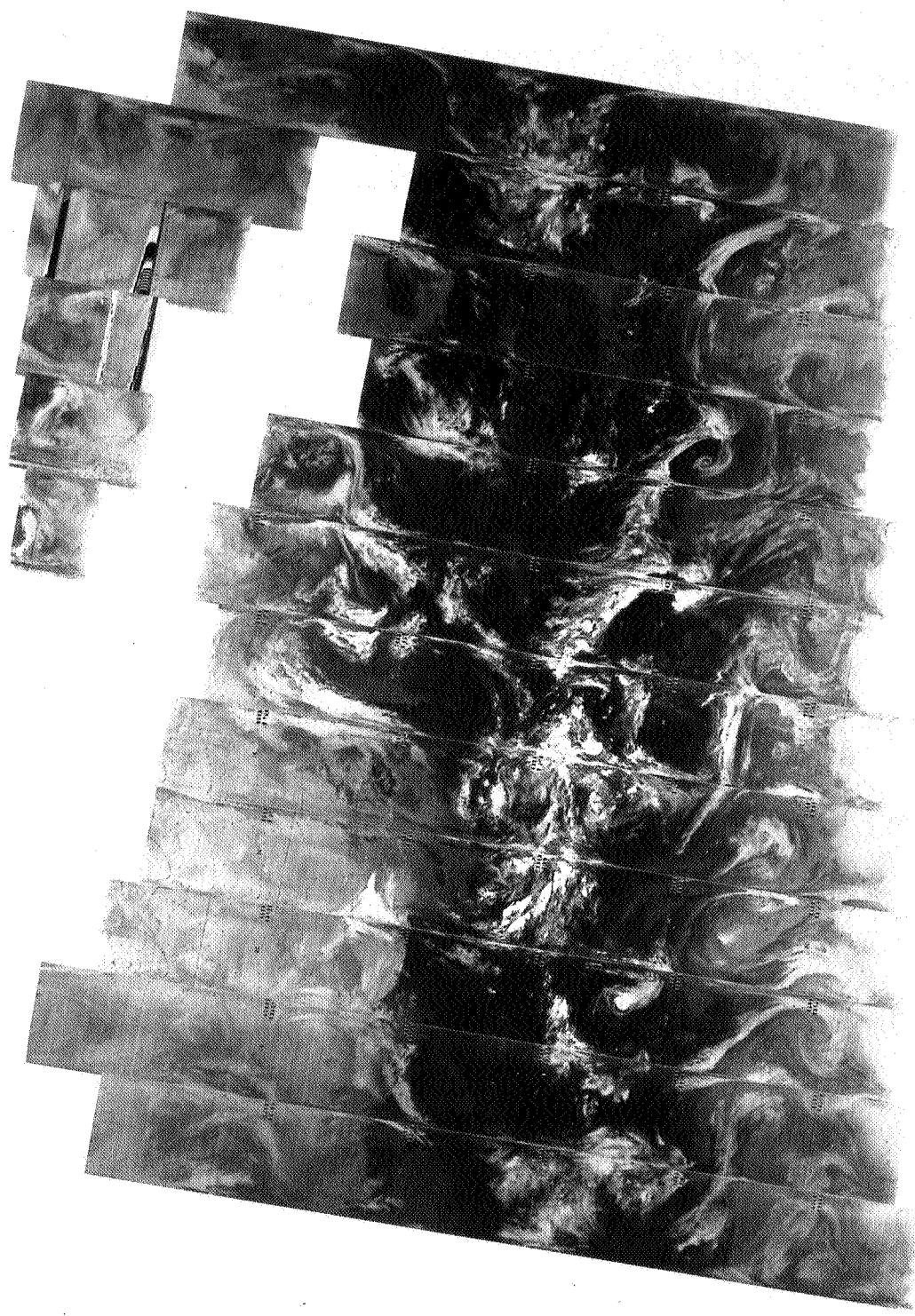


5929 5928 5927 5926 5925 5924 5923 5922 5921 5920 5919 5918 5917 5916

25 FEBRUARY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



5942 5941 5940 5939 5938 5937 5936 5935 5934 5933 5932 5931 5930

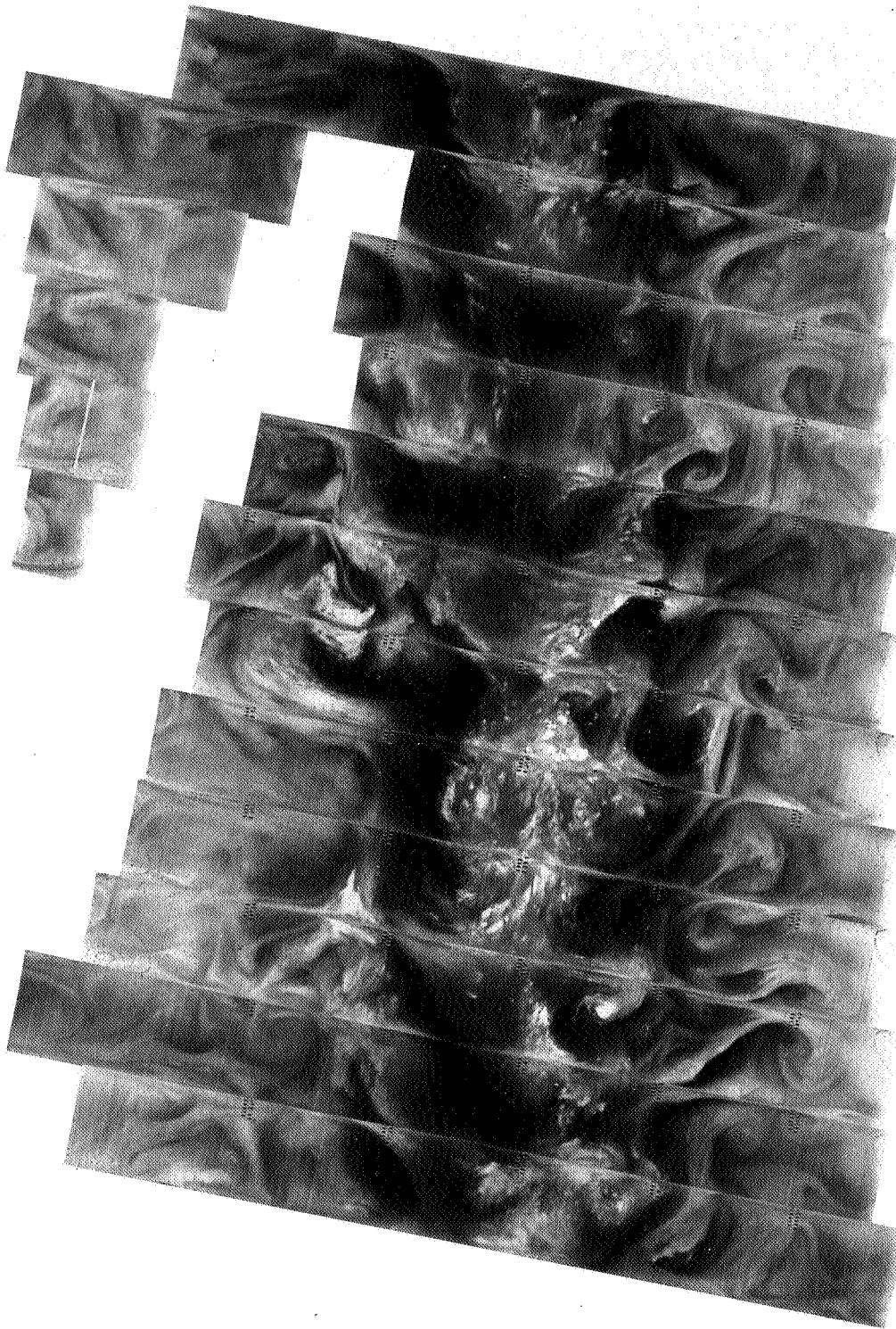
26 FEBRUARY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

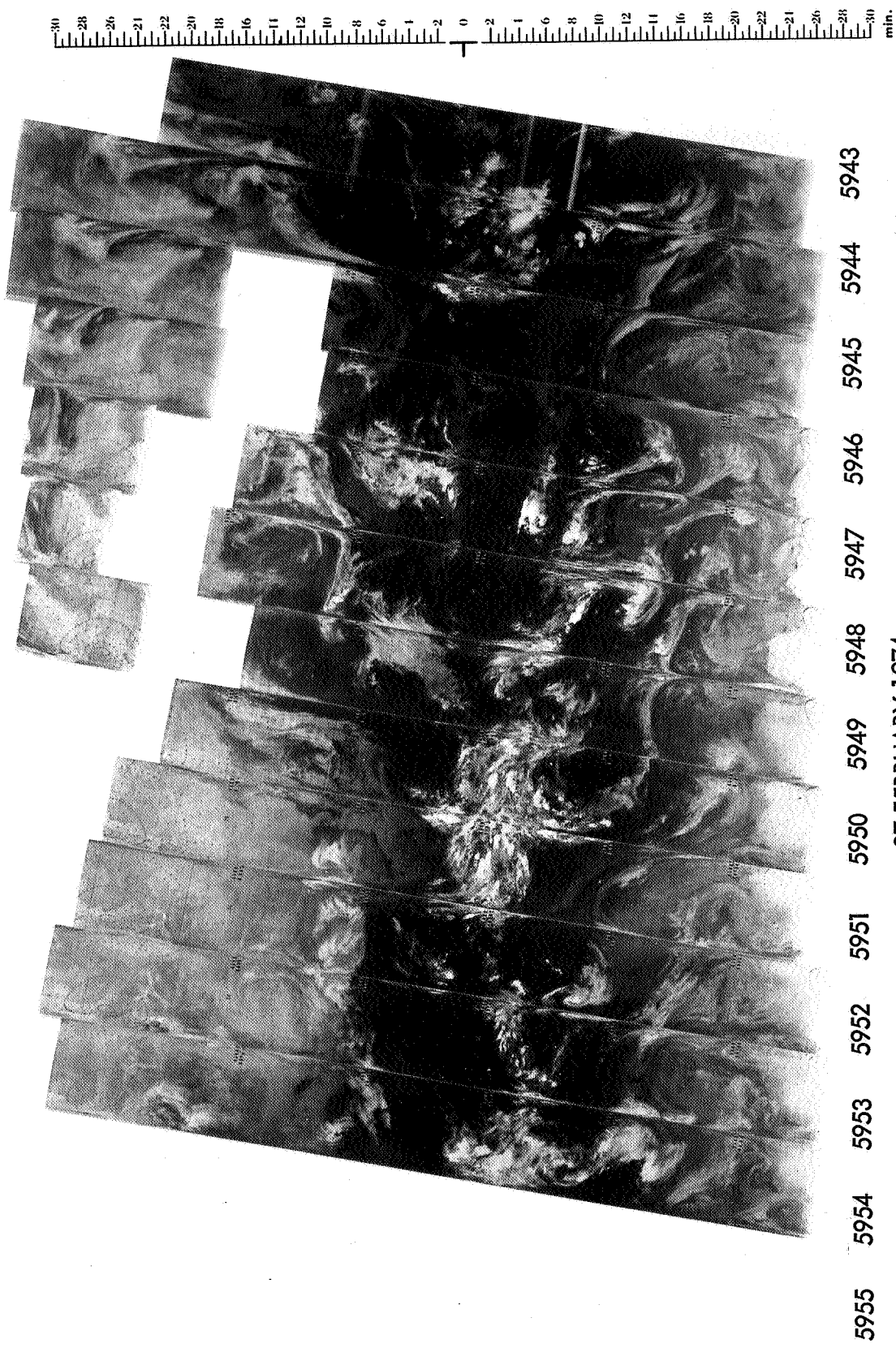


5942 5941 5940 5939 5938 5937 5936 5935 5934 5933 5932 5931 5930

26 FEBRUARY 1974

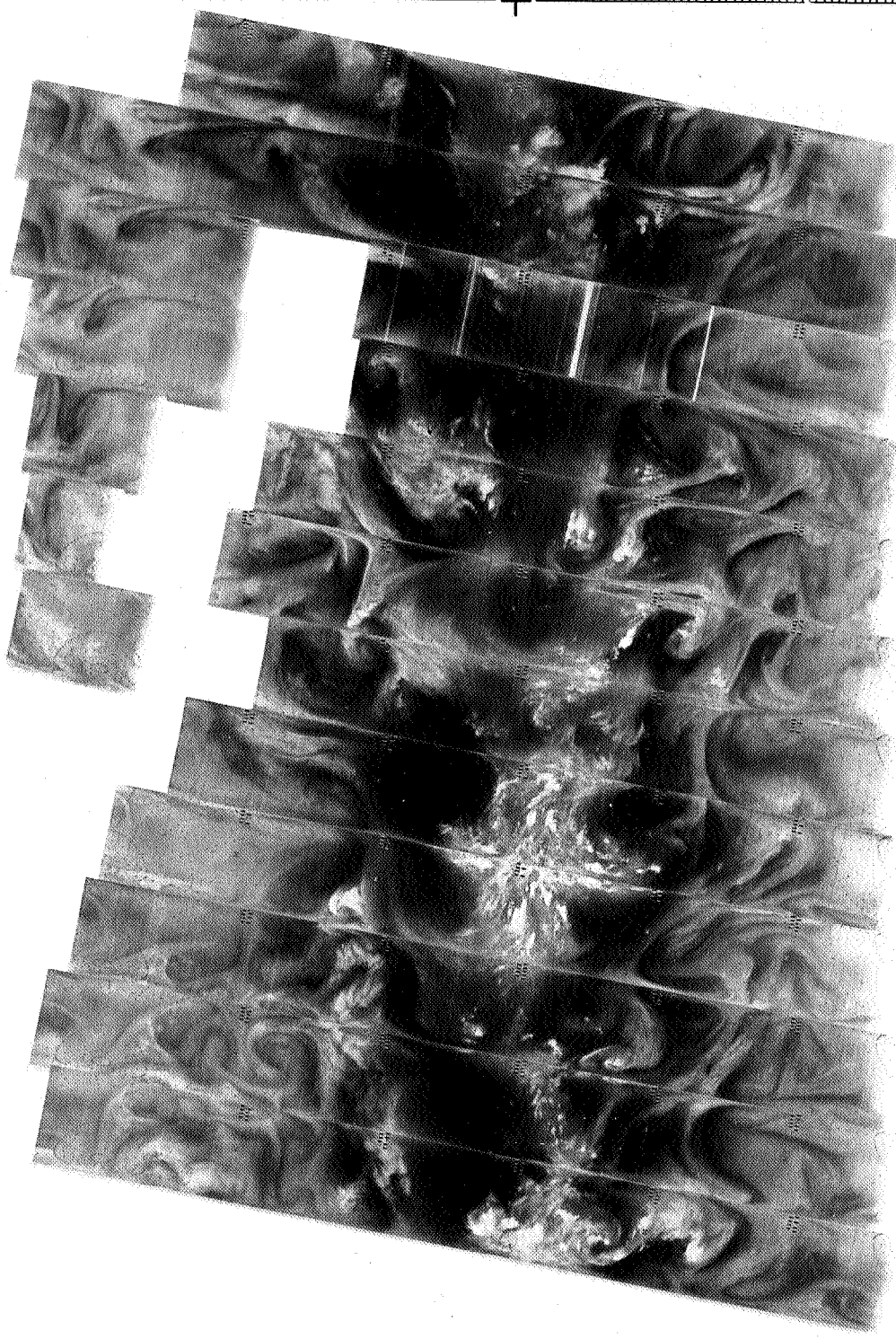
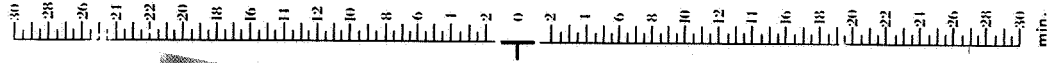
6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



27 FEBRUARY 1974

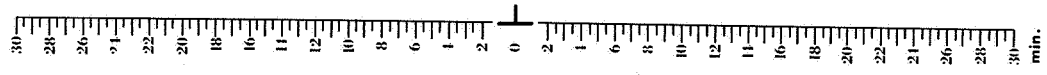
11.5 μ m

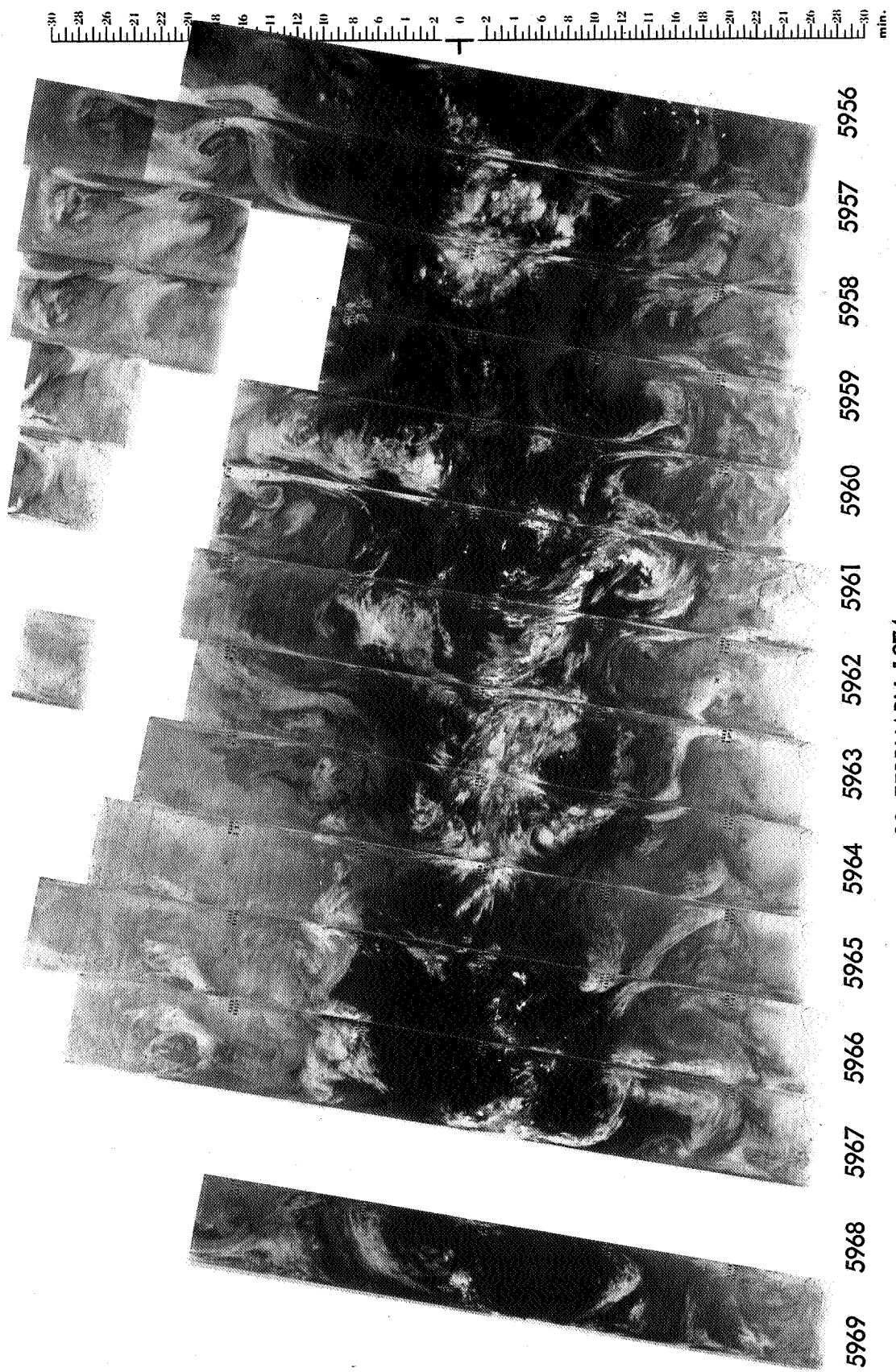


5955 5954 5953 5952 5951 5950 5949 5948 5947 5946 5945 5944 5943

27 FEBRUARY 1974

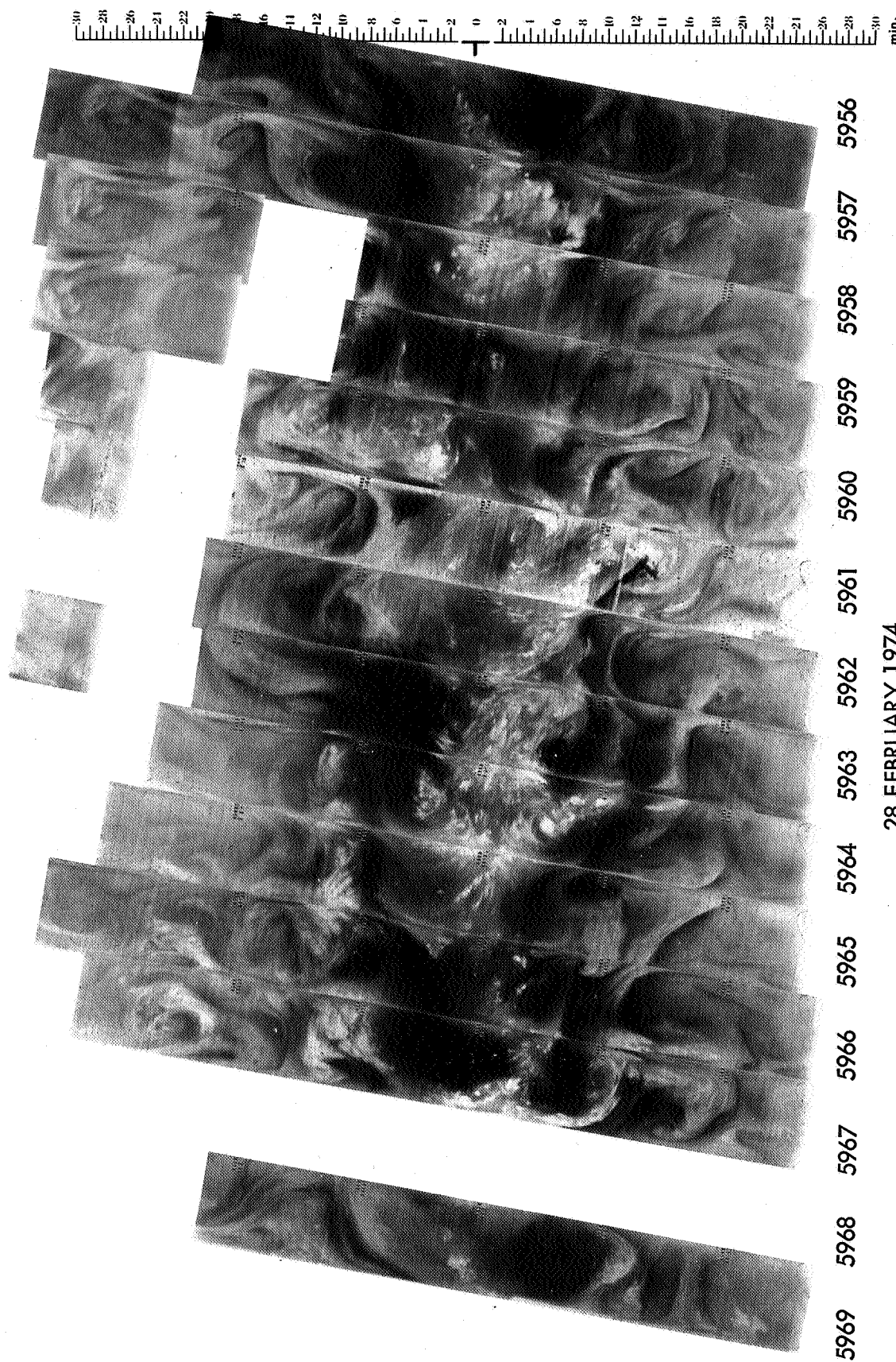
6.7 μ m

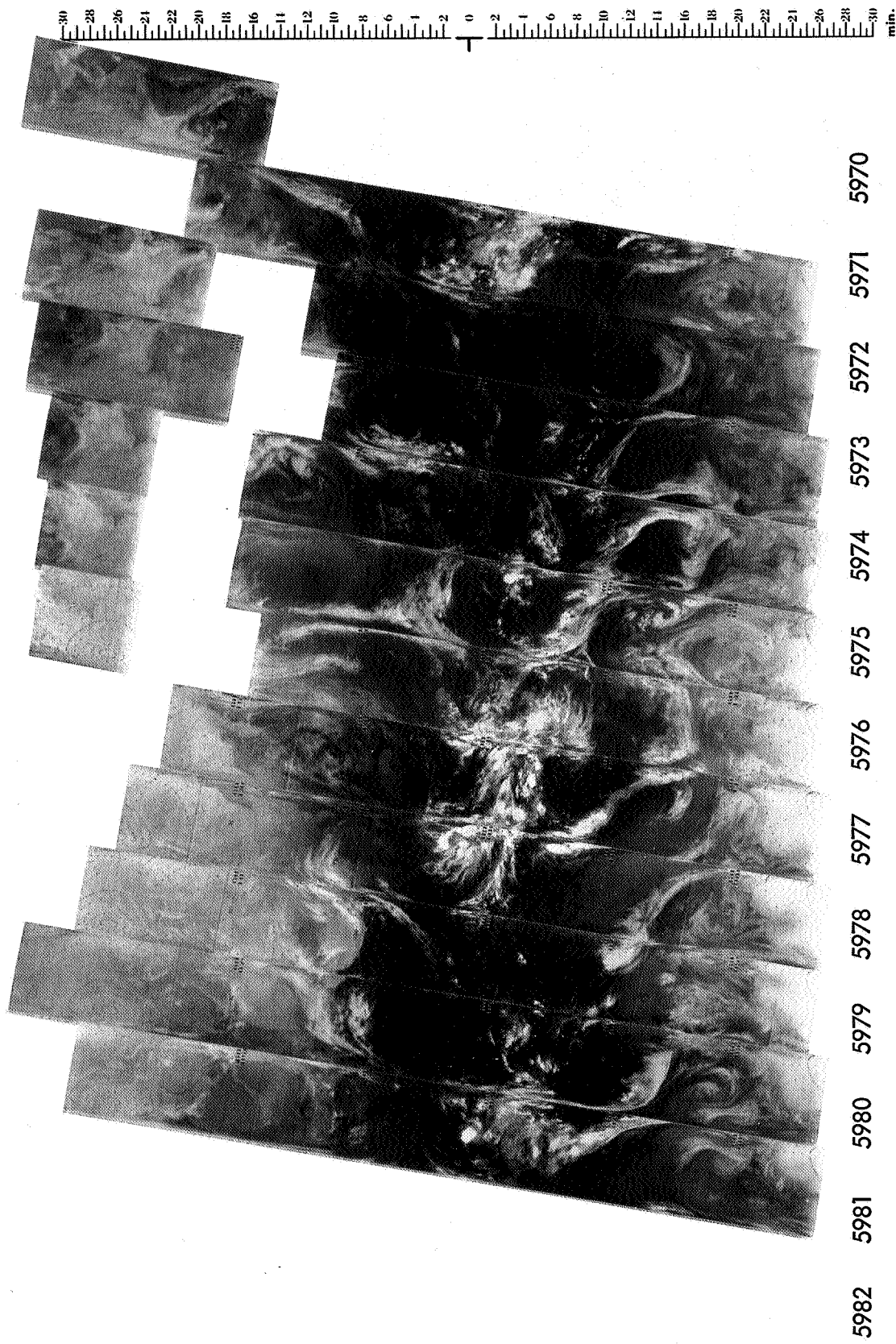




28 FEBRUARY 1974

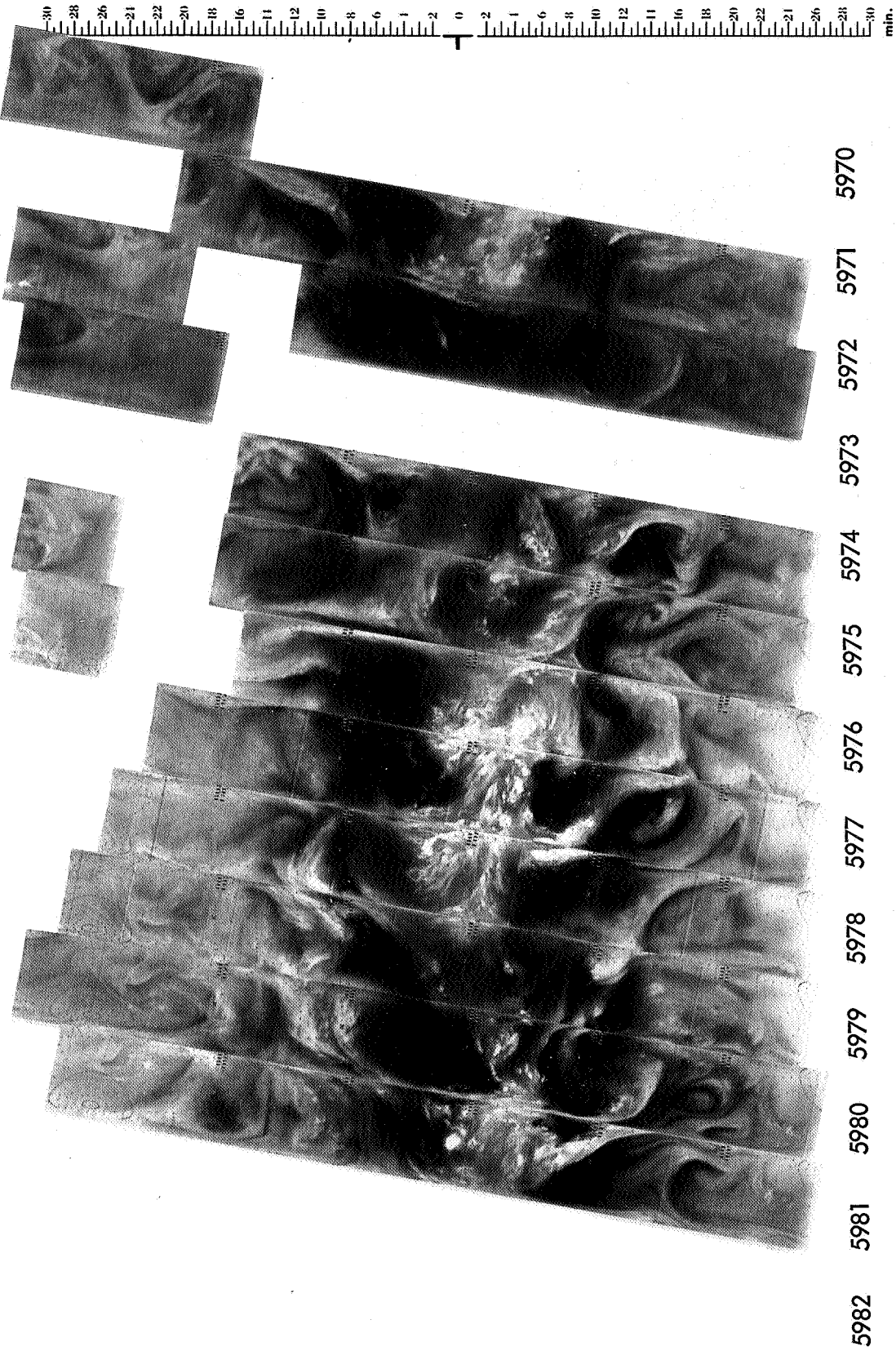
11.5 μ m





1 MARCH 1974

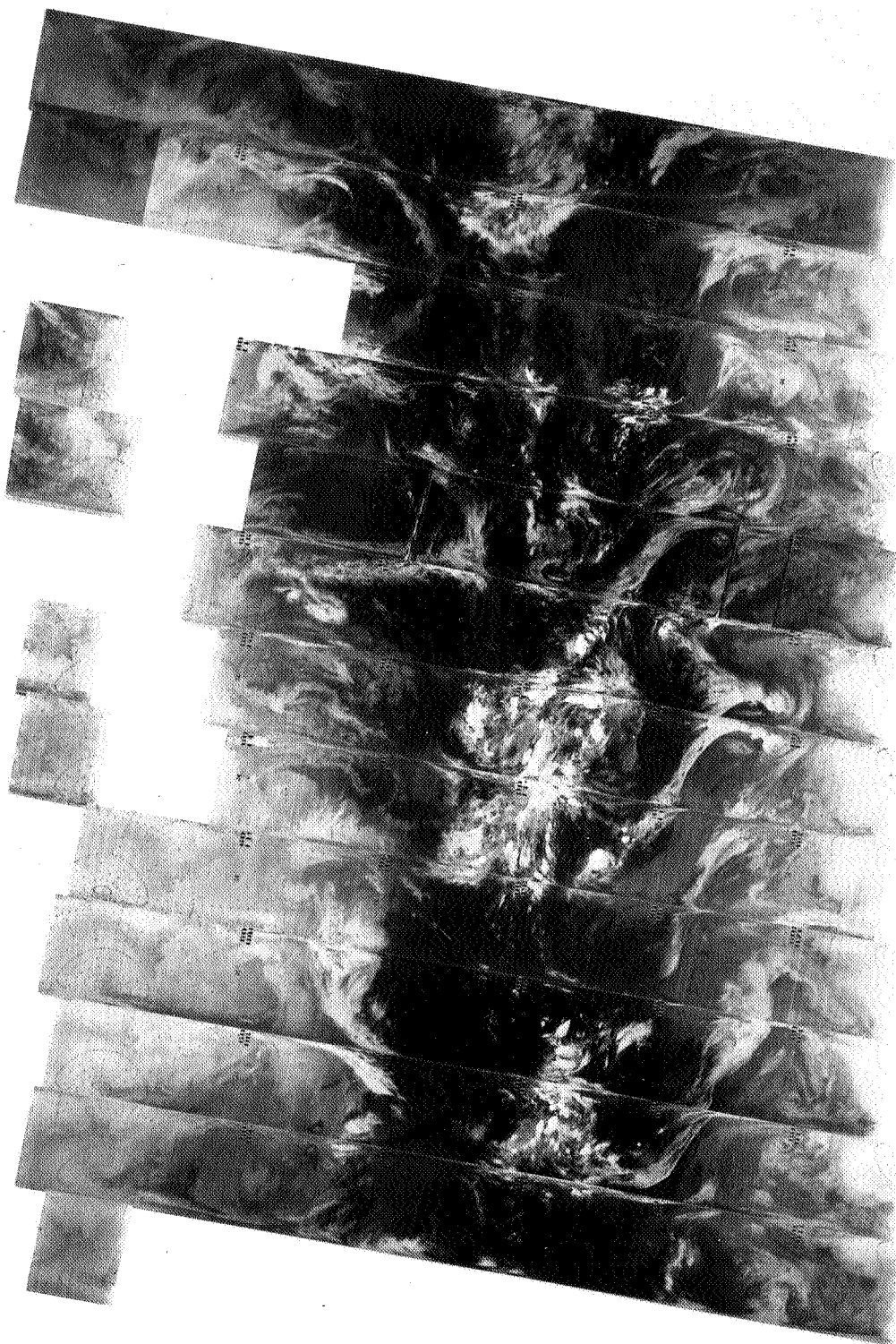
11.5 μ m



1 MARCH 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



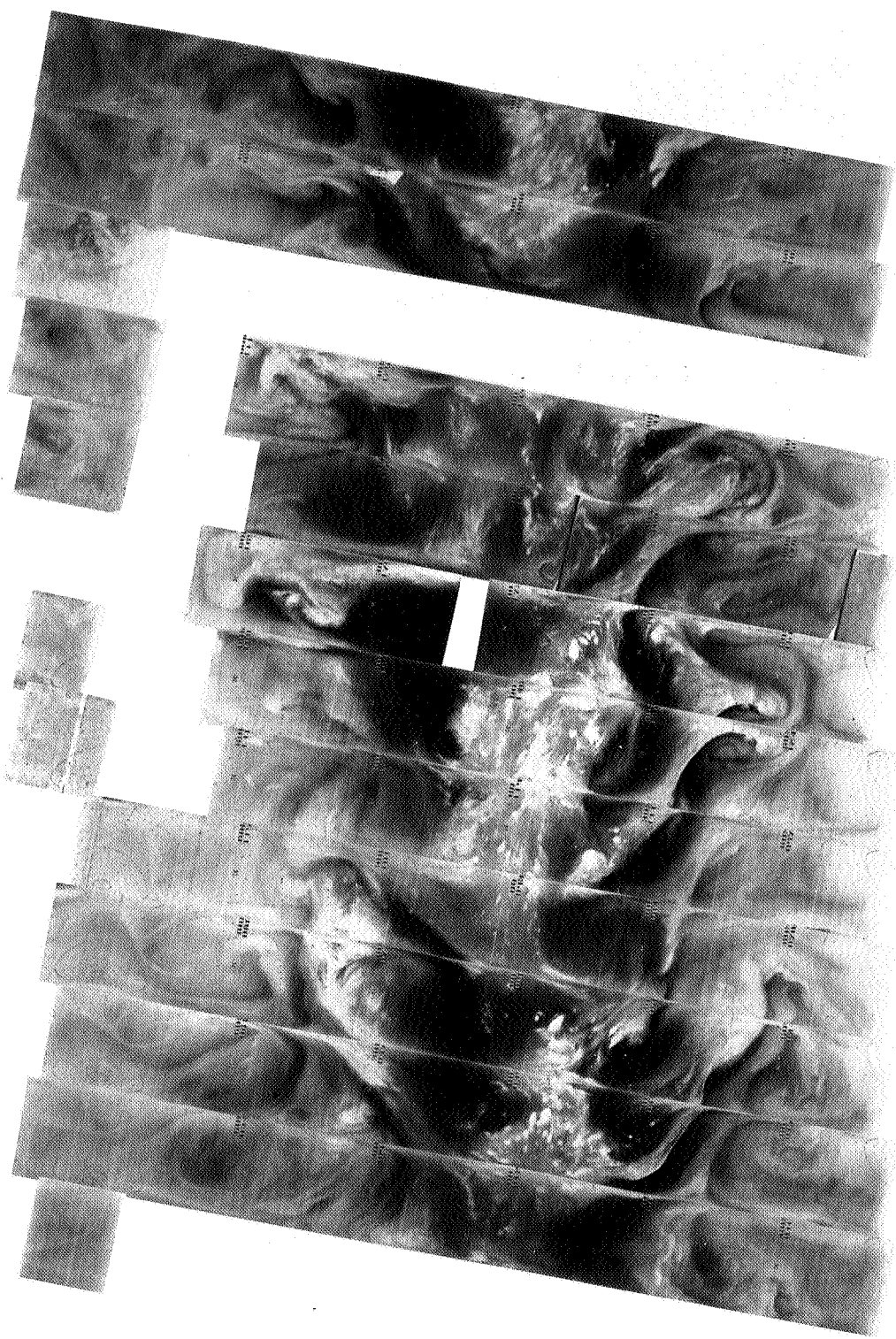
5996 5995 5994 5993 5992 5991 5990 5989 5988 5987 5986 5985 5984 5983

2 MARCH 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



5996 5995 5994 5993 5992 5991 5990 5989 5988 5987 5986 5985 5984 5983

2 MARCH 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



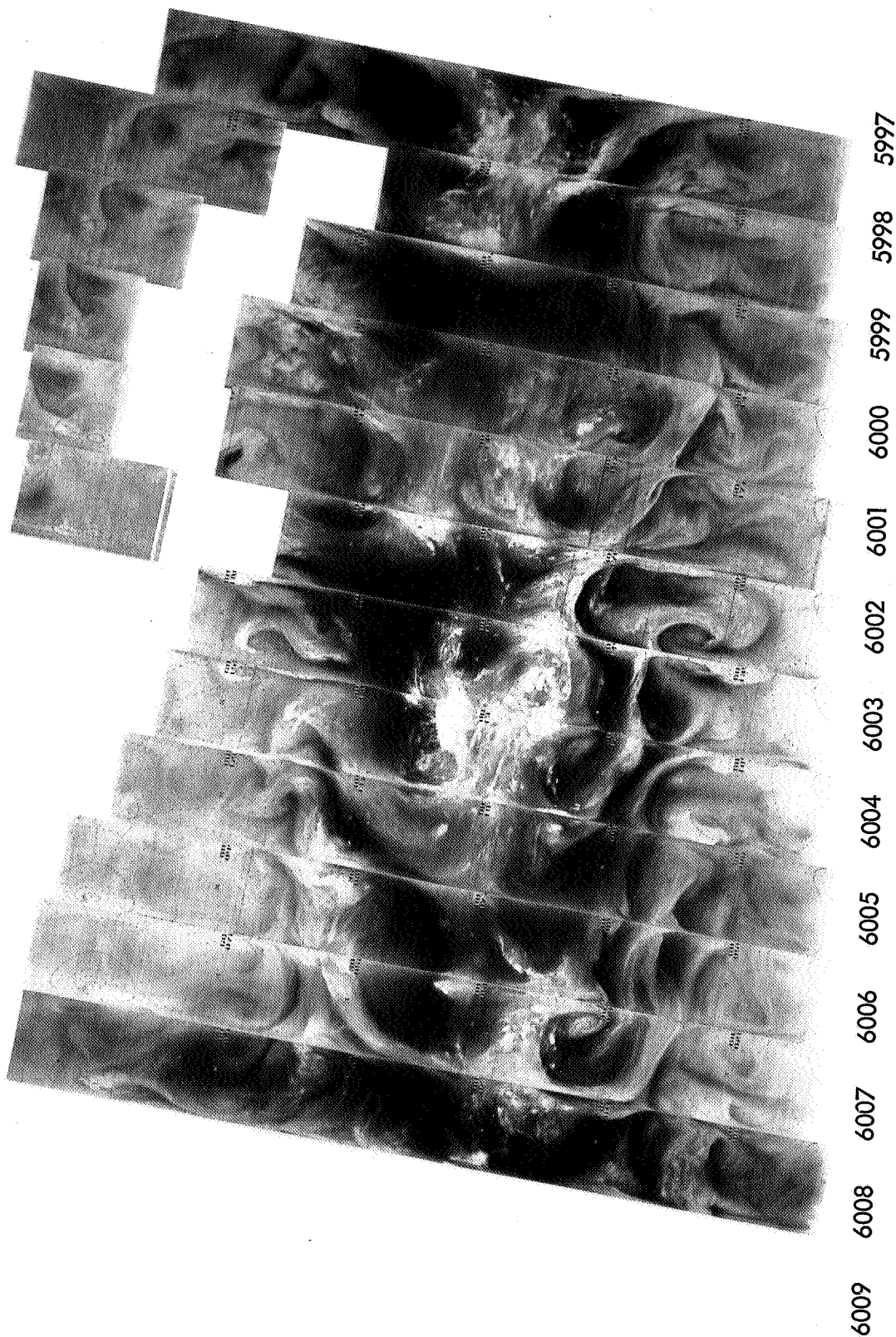
6009 6008 6007 6006 6005 6004 6003 6002 6001 6000 5999 5998 5997

3 MARCH 1974

11.5 μ m

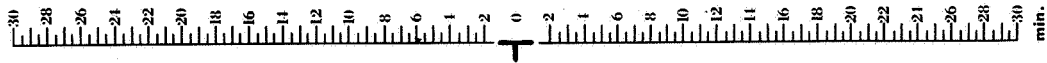
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

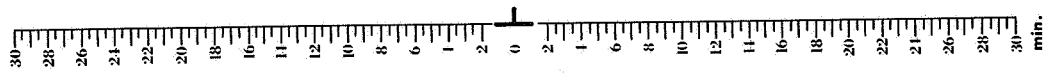
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



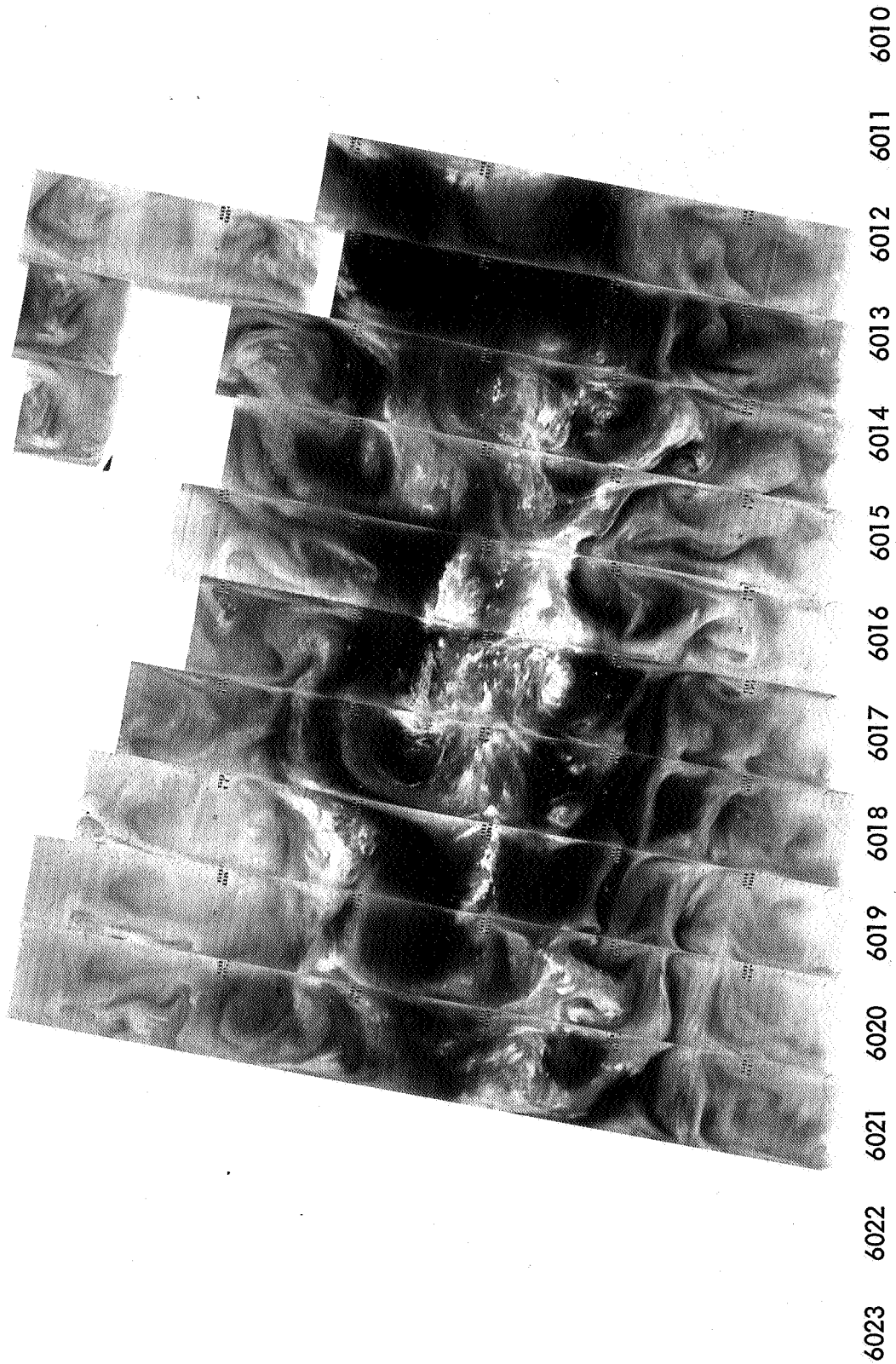
6023 6022 6021 6020 6019 6018 6017 6016 6015 6014 6013 6012 6011 6010

4 MARCH 1974

11.5 μ m



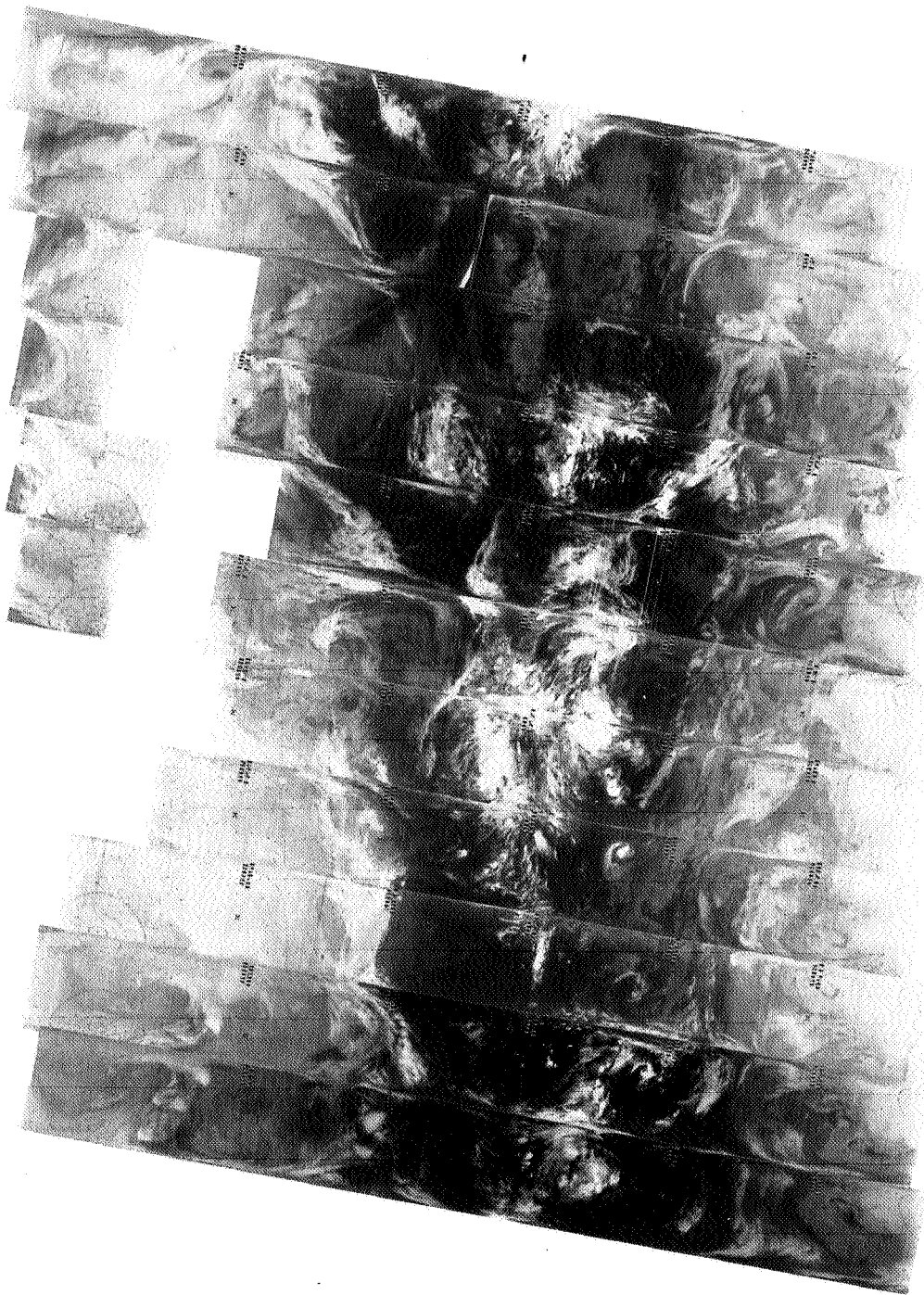
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



4 MARCH 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



6036 6035 6034 6033 6032 6031 6030 6029 6028 6027 6026 6025 6024

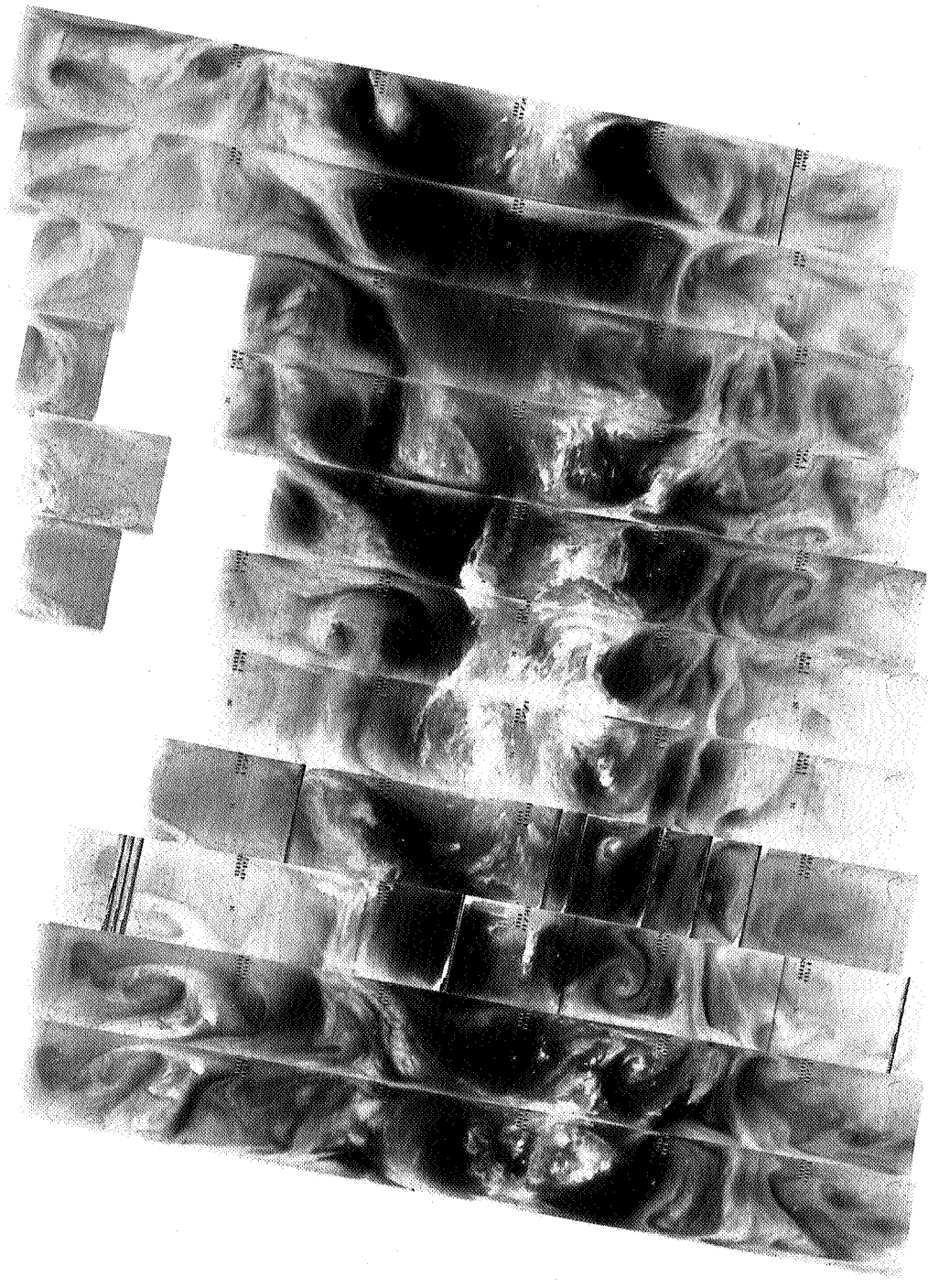
5 MARCH 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



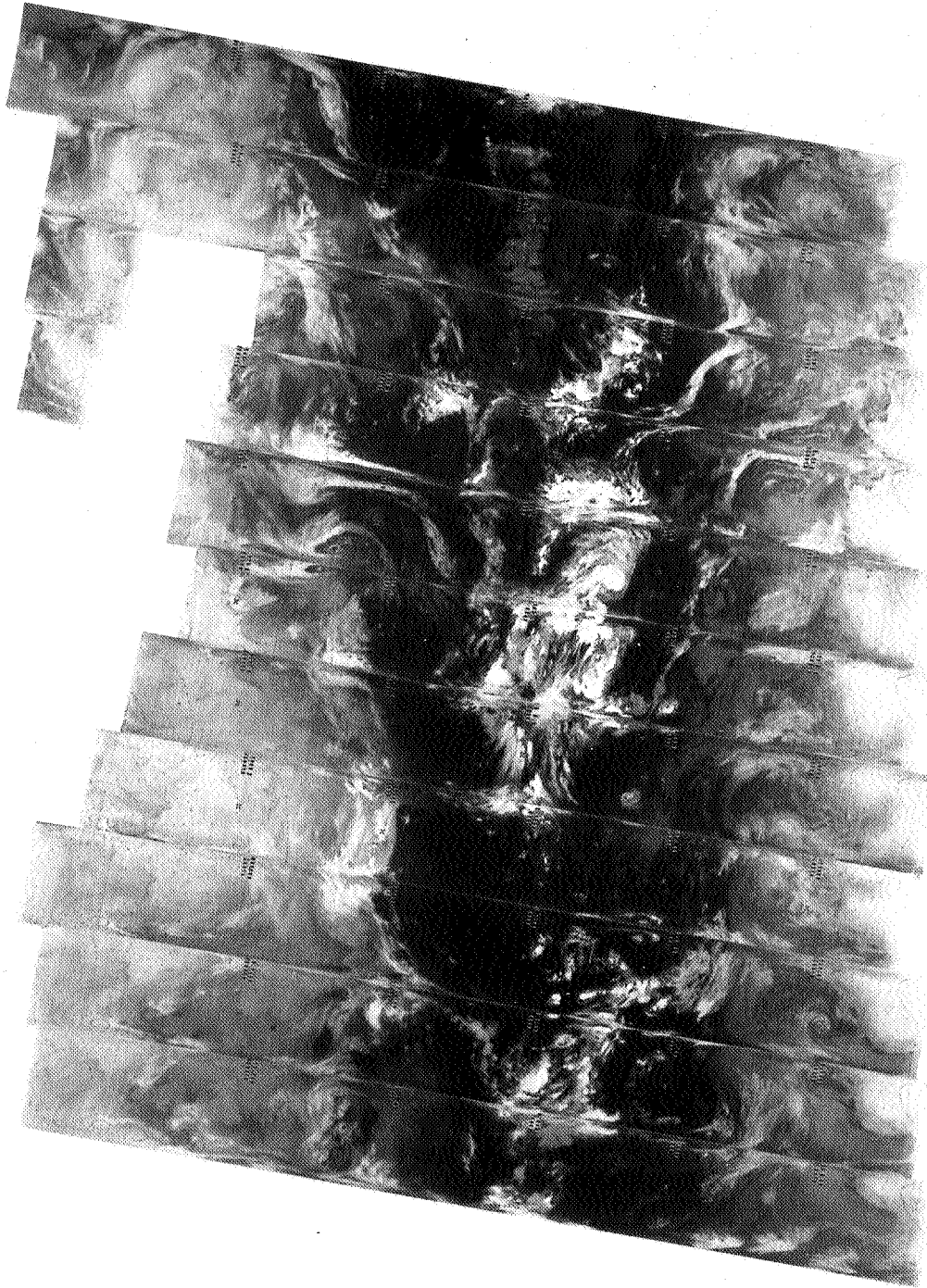
6036 6035 6034 6033 6032 6031 6030 6029 6028 6027 6026 6025 6024

5 MARCH 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



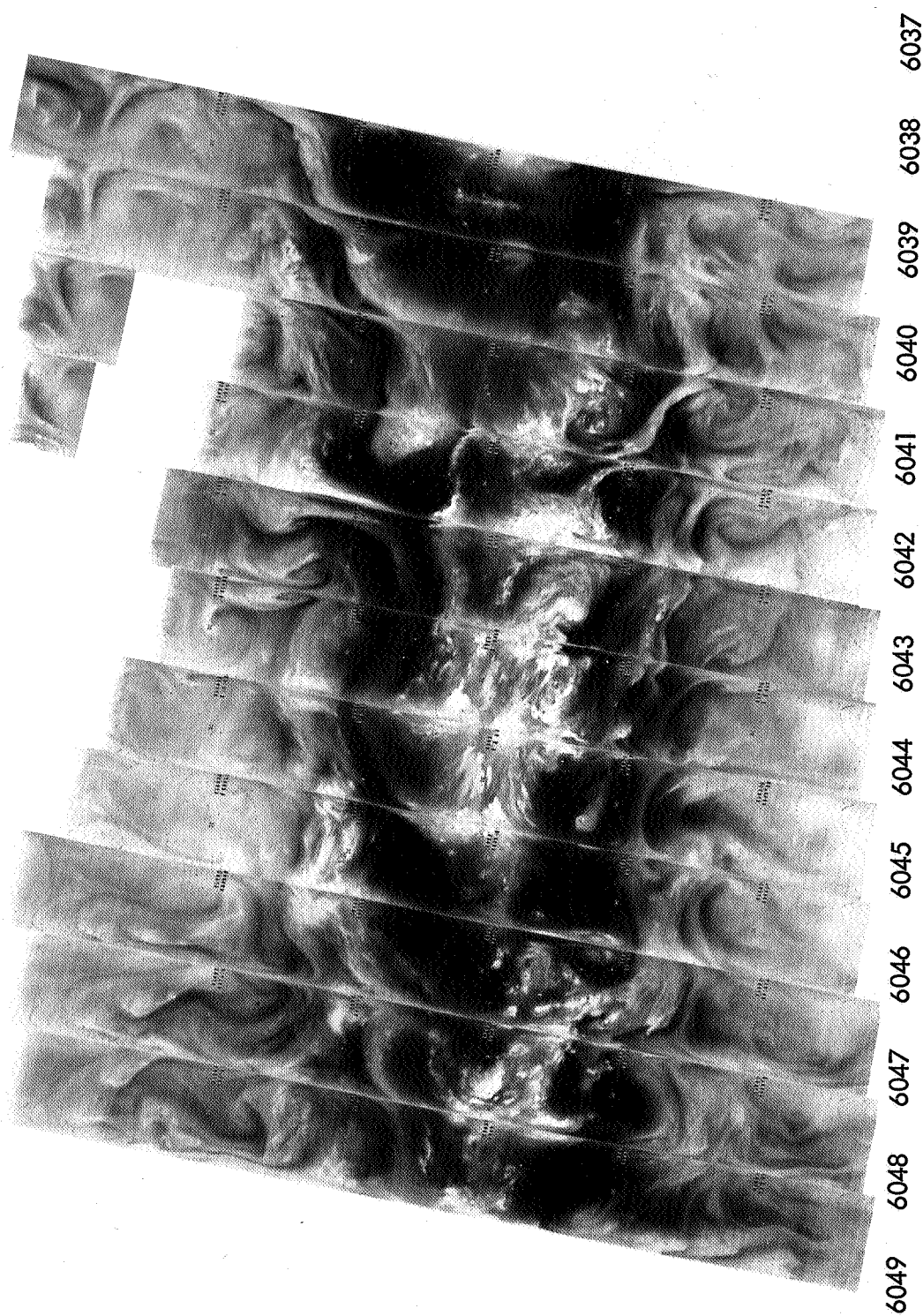
6049 6048 6047 6046 6045 6044 6043 6042 6041 6040 6039 6038 6037

6 MARCH 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

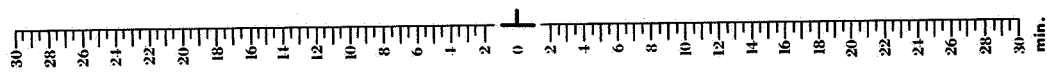
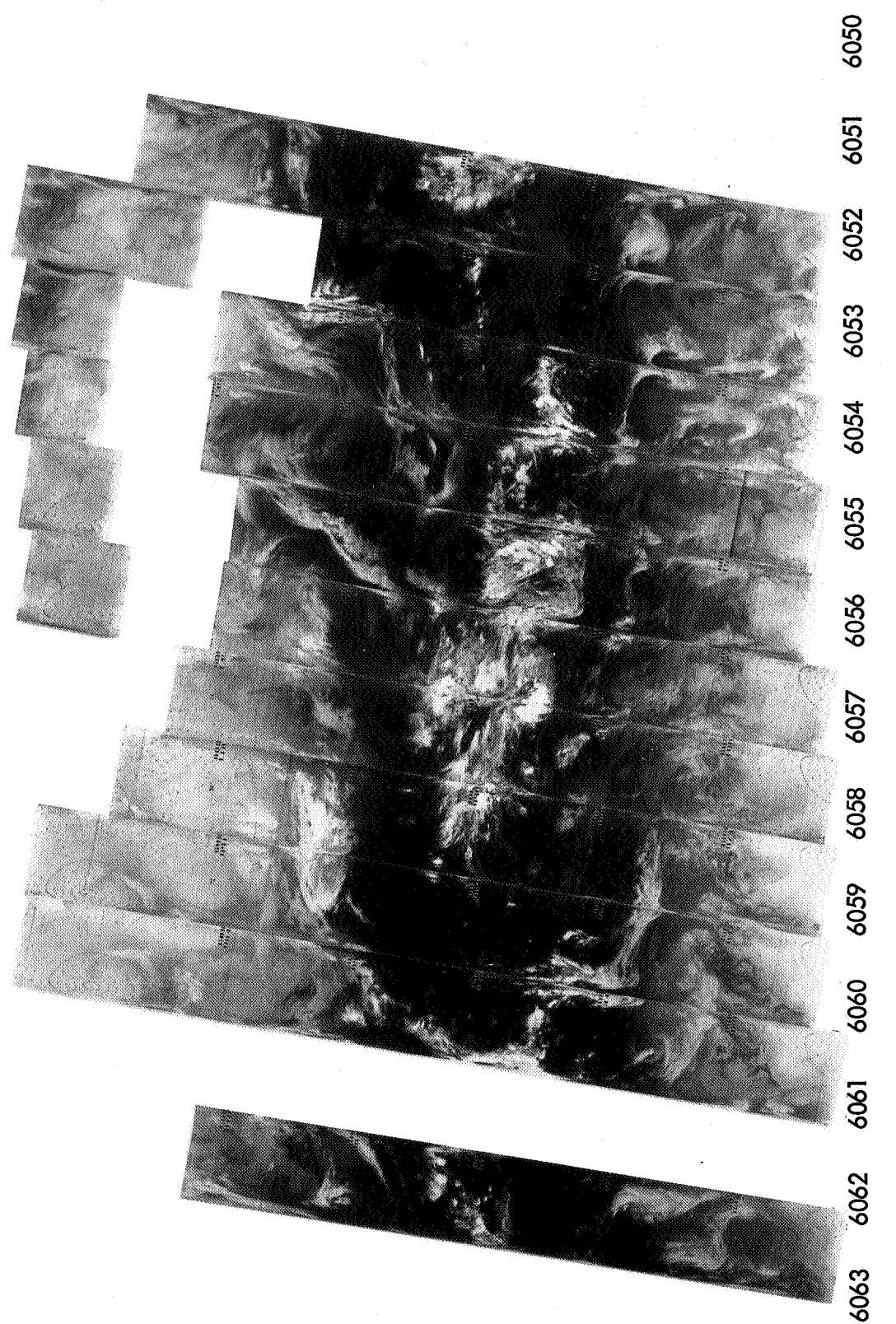
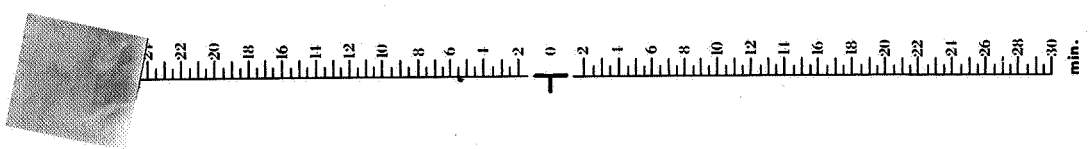
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



6 MARCH 1974

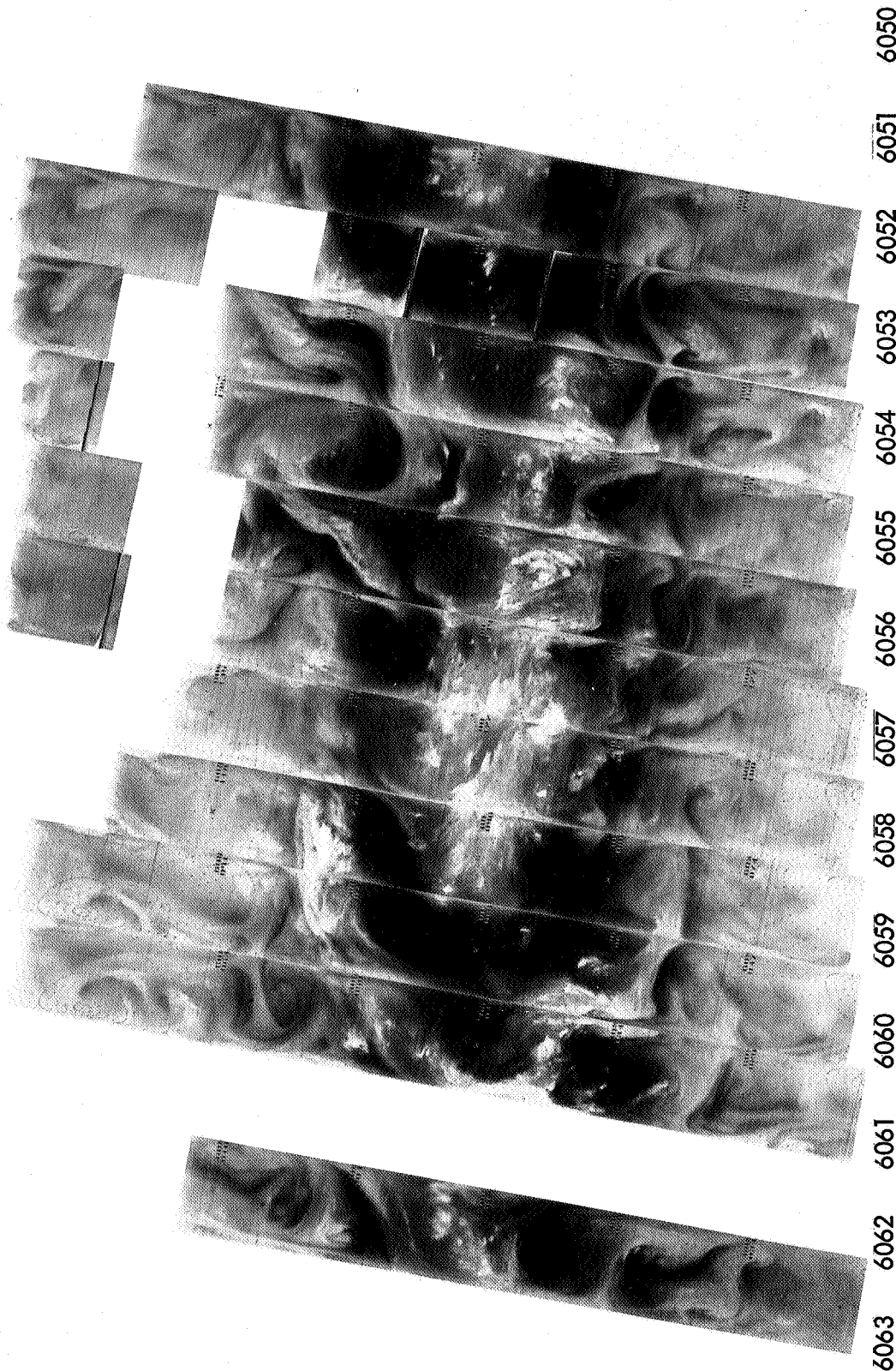
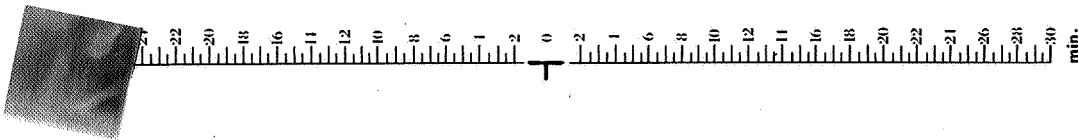
6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



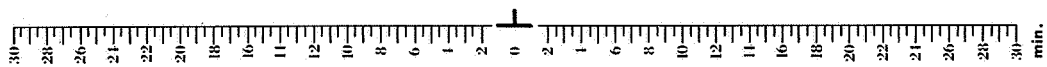
7 MARCH 1974

11.5 μ m

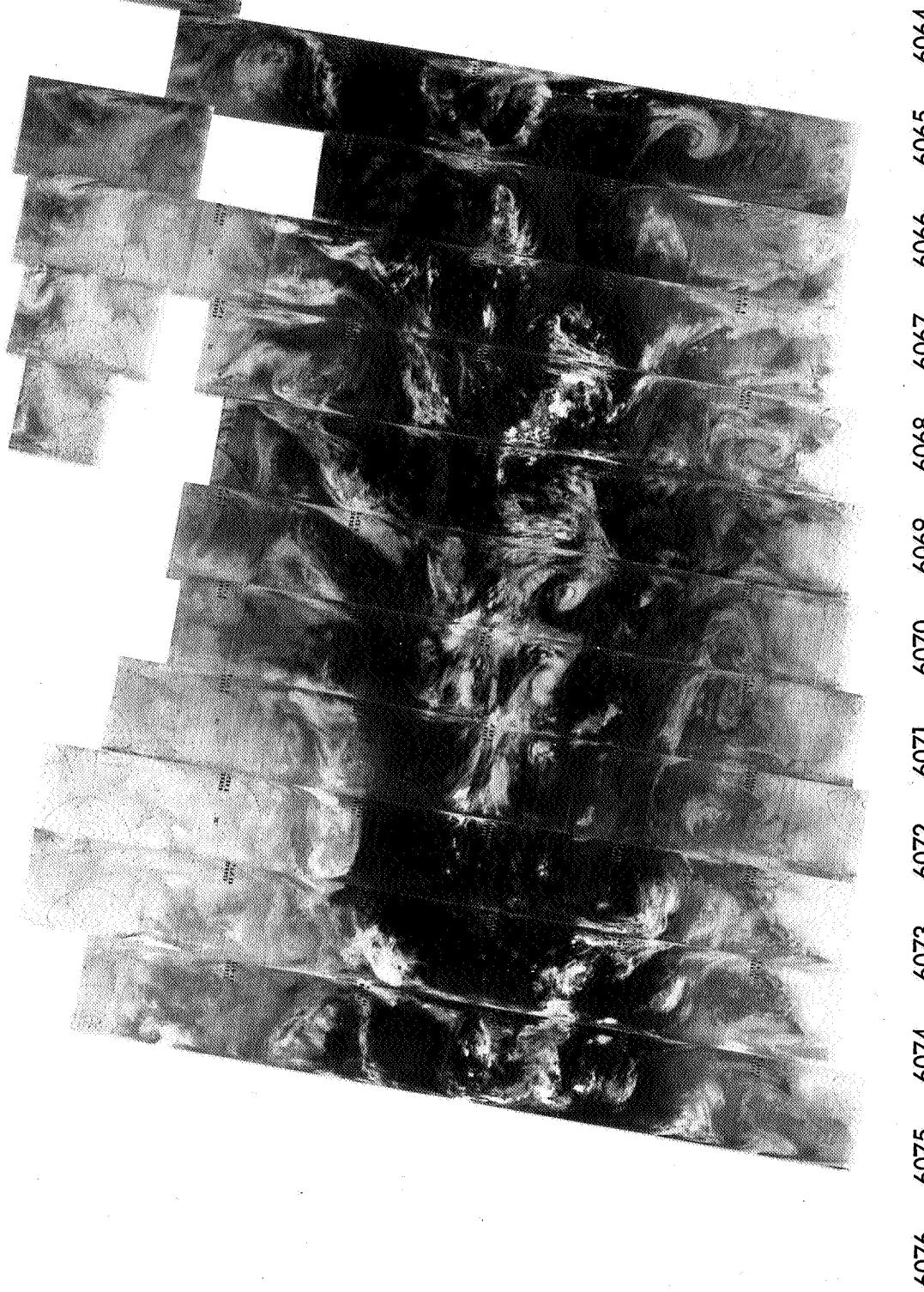


7 MARCH 1974

6.7 μ m

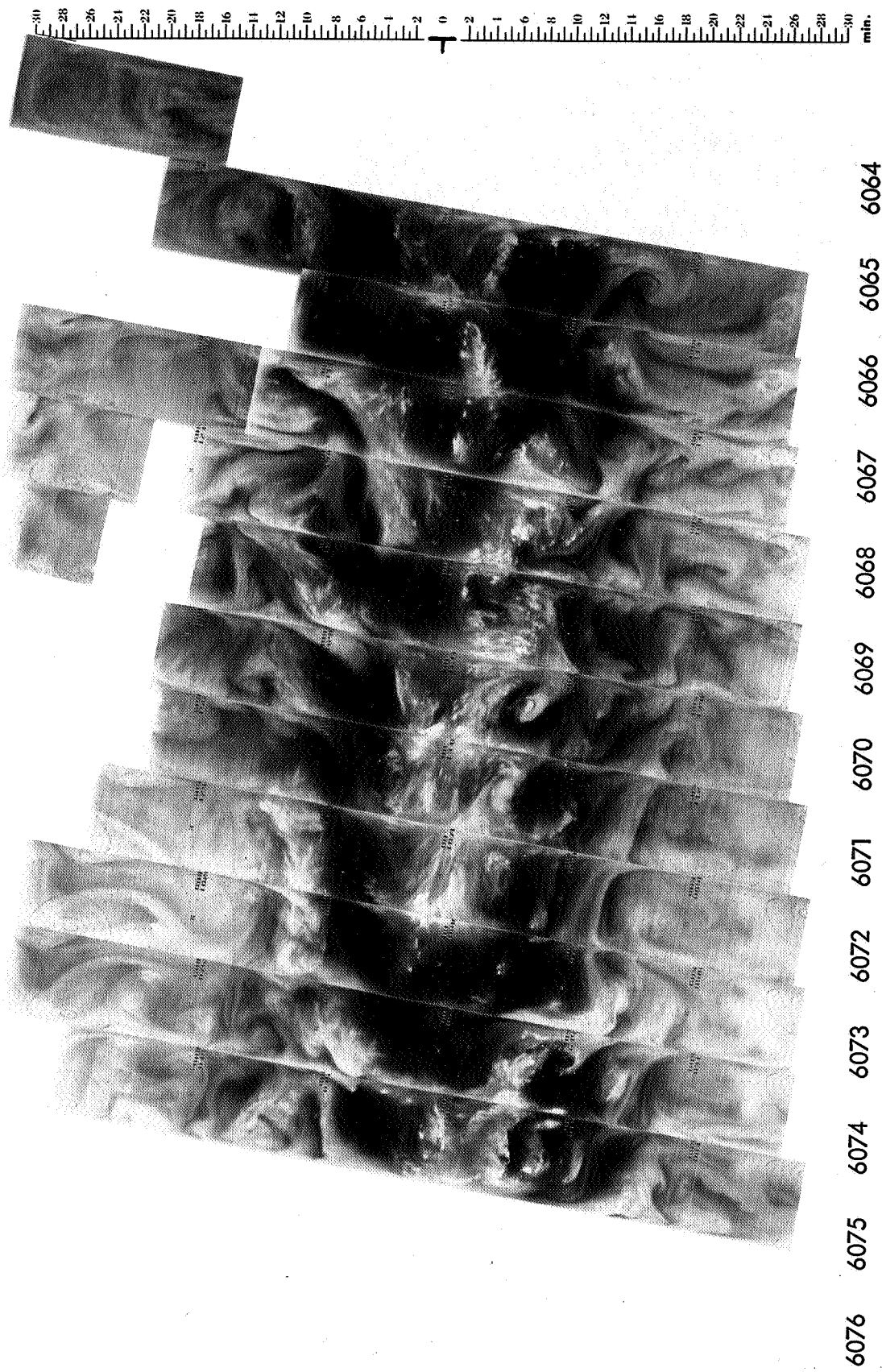


30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

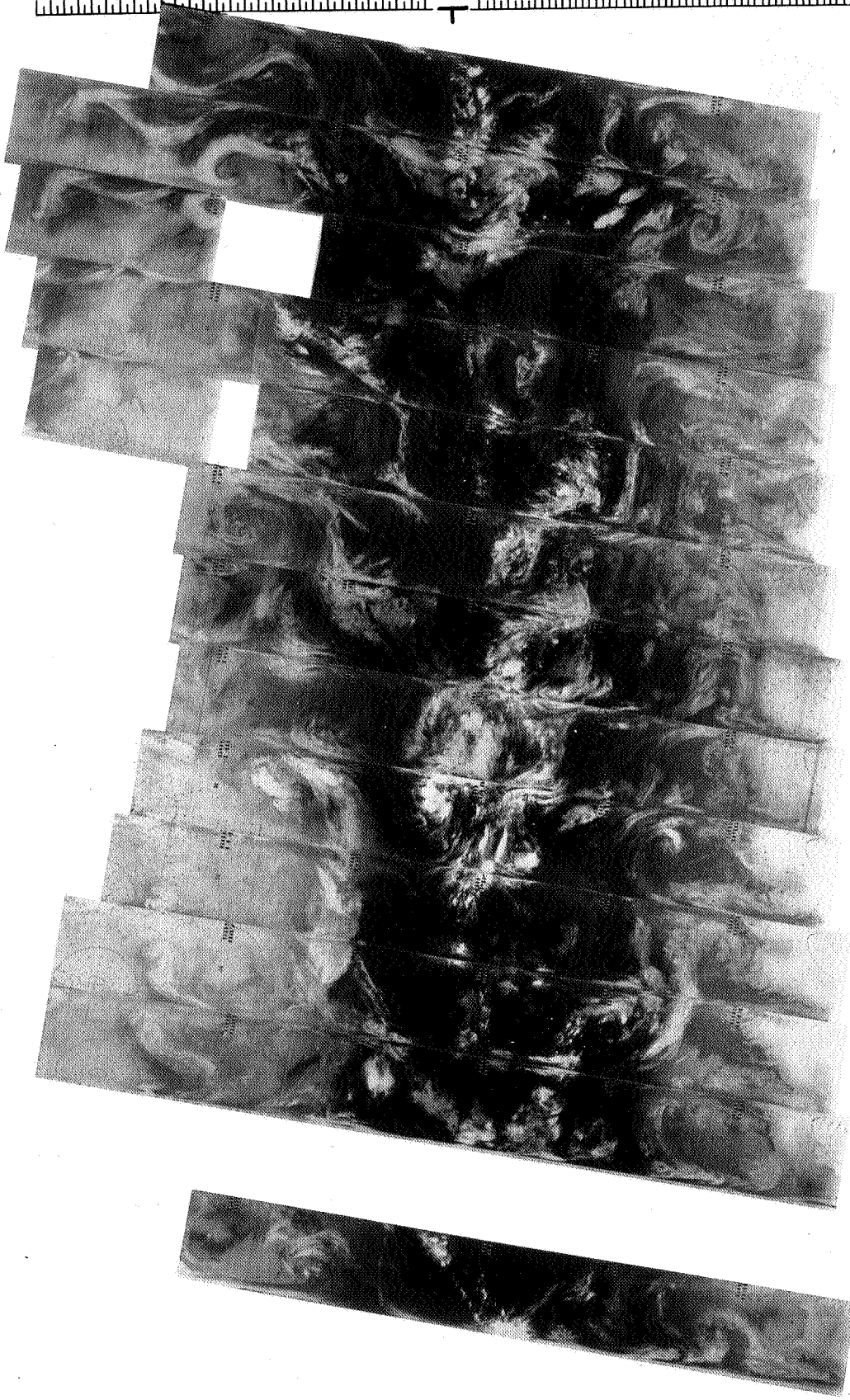
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8 MARCH 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



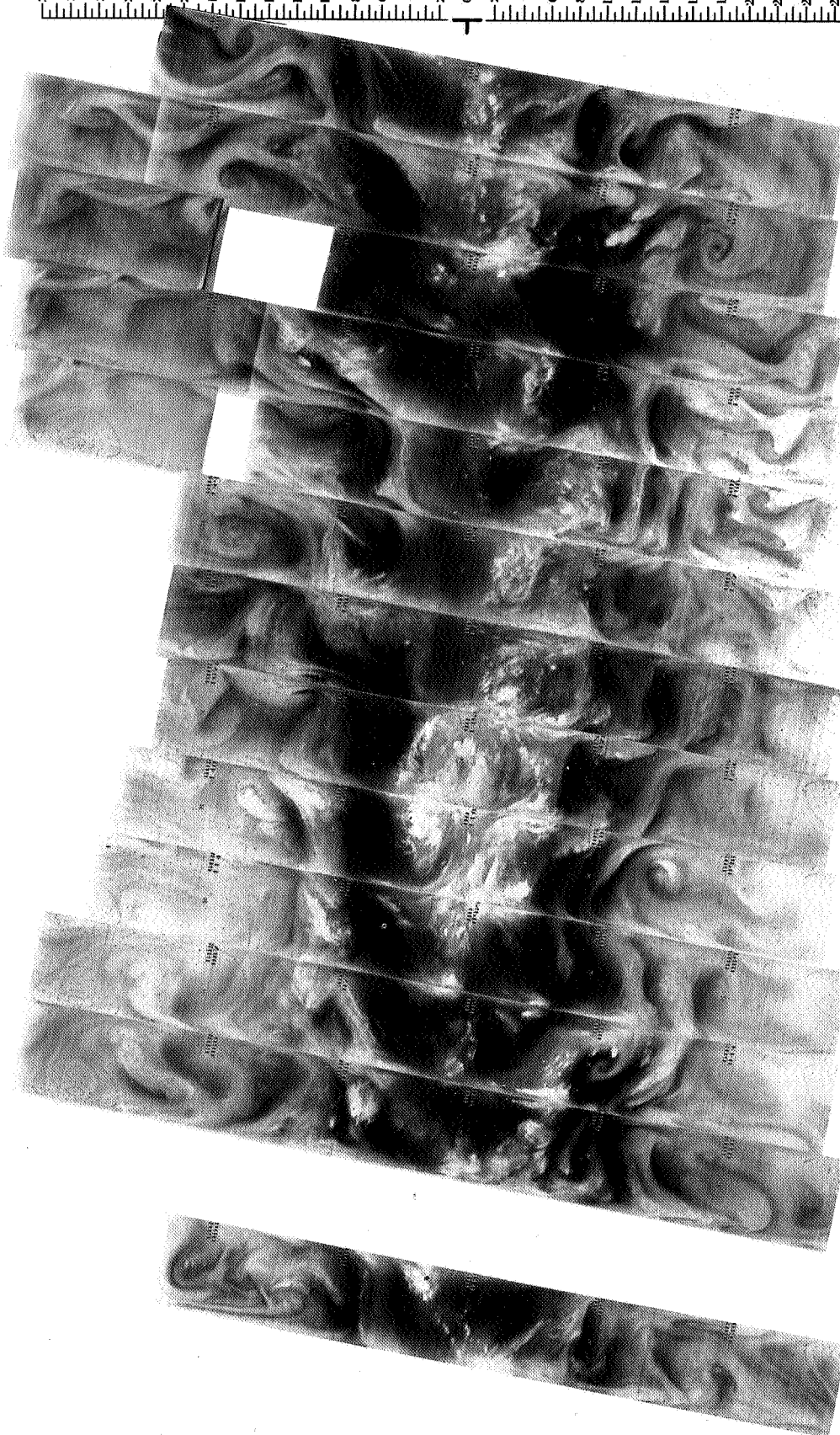
6090 6089 6088 6087 6086 6085 6084 6083 6082 6081 6080 6079 6078 6077

9 MARCH 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



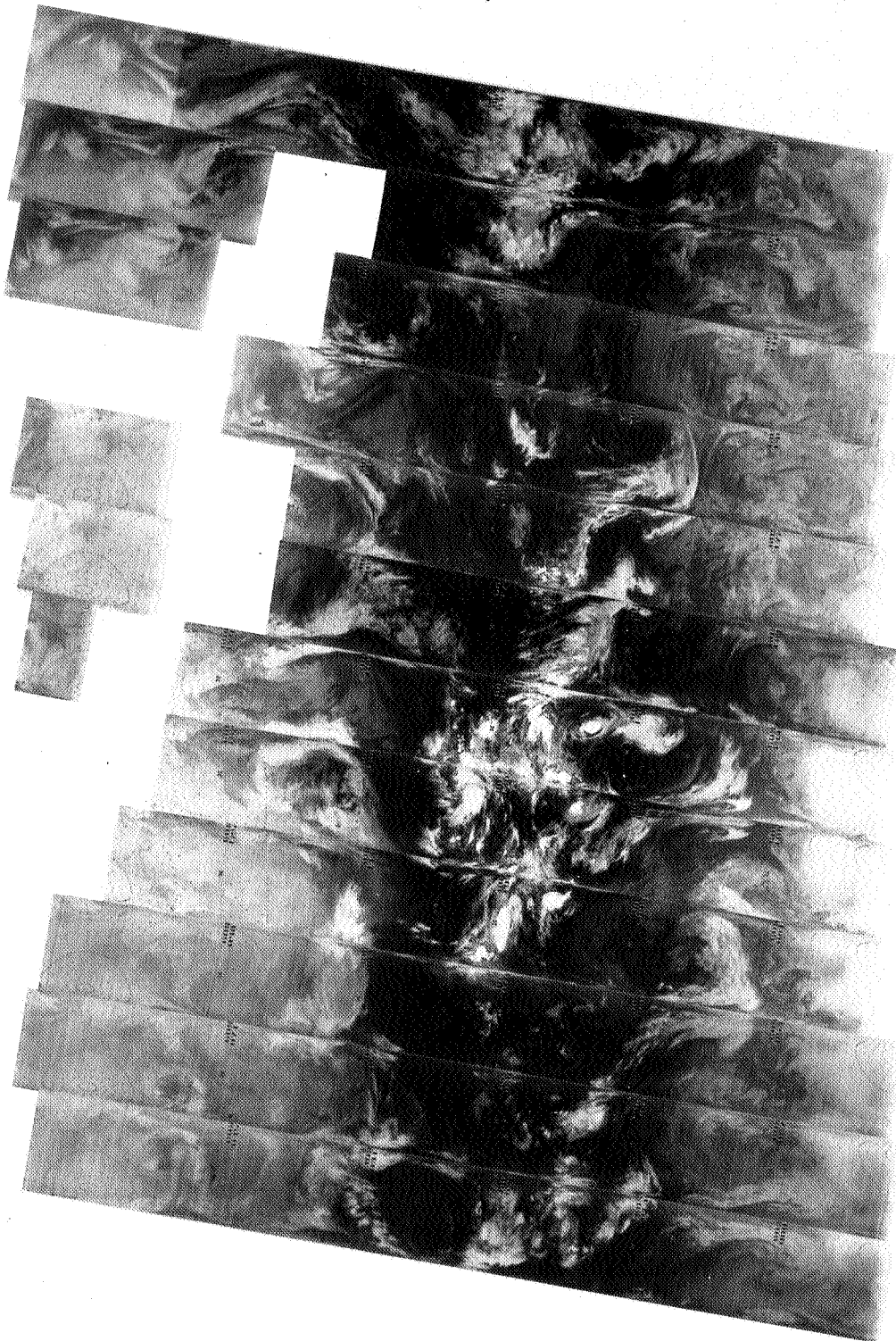
6077 6078 6079 6080 6081 6082 6083 6084 6085 6086 6087 6088 6089 6090

9 MARCH 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

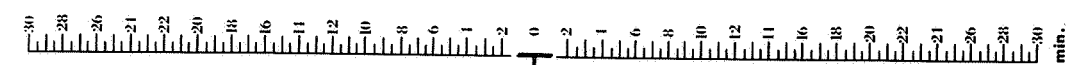
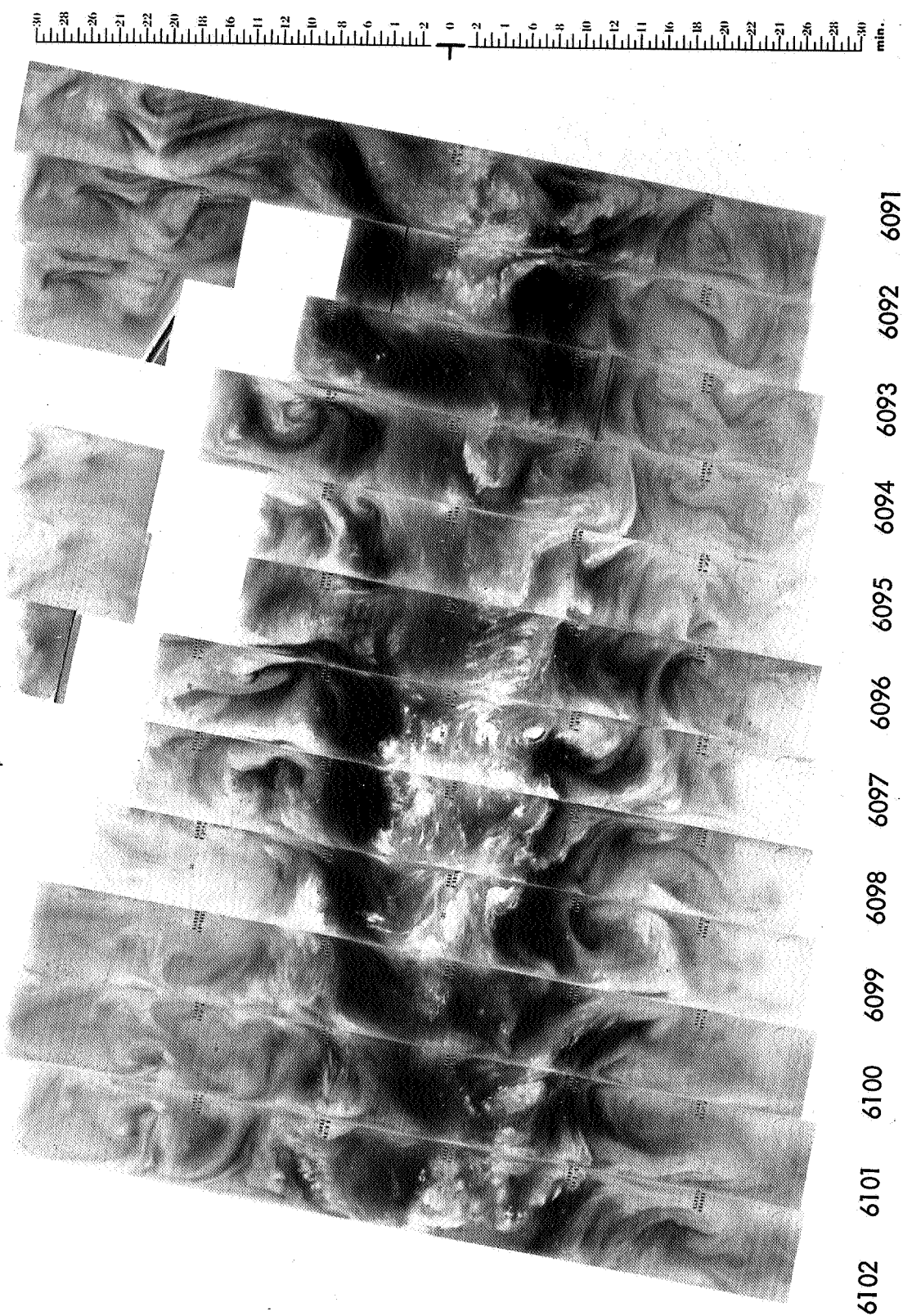
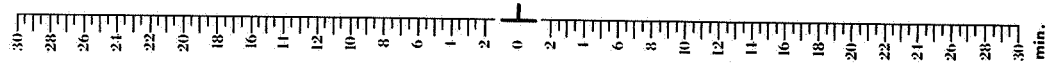


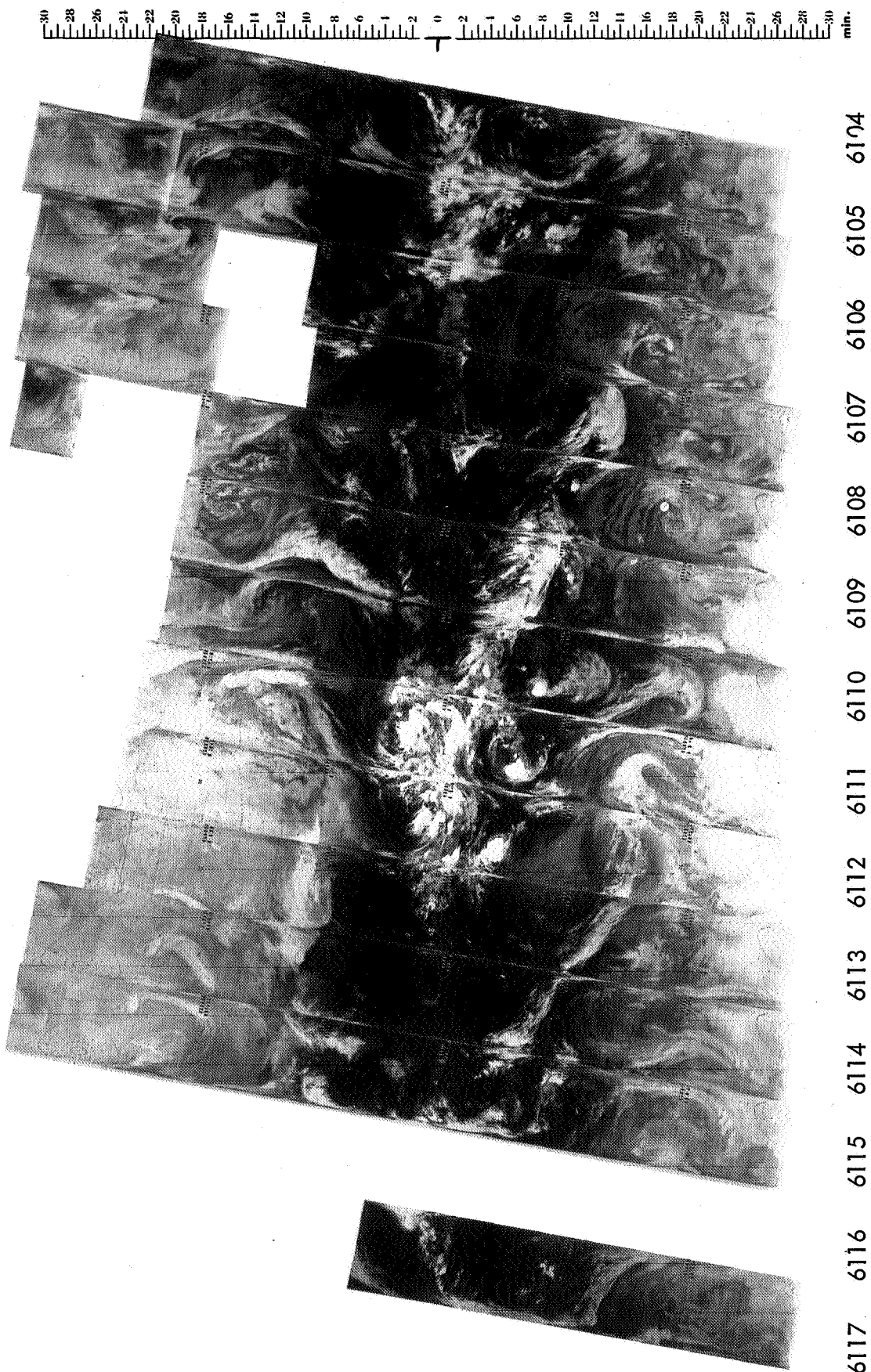
6103 6102 6101 6100 6099 6098 6097 6096 6095 6094 6093 6092 6091

10 MARCH 1974

11.5 μ m

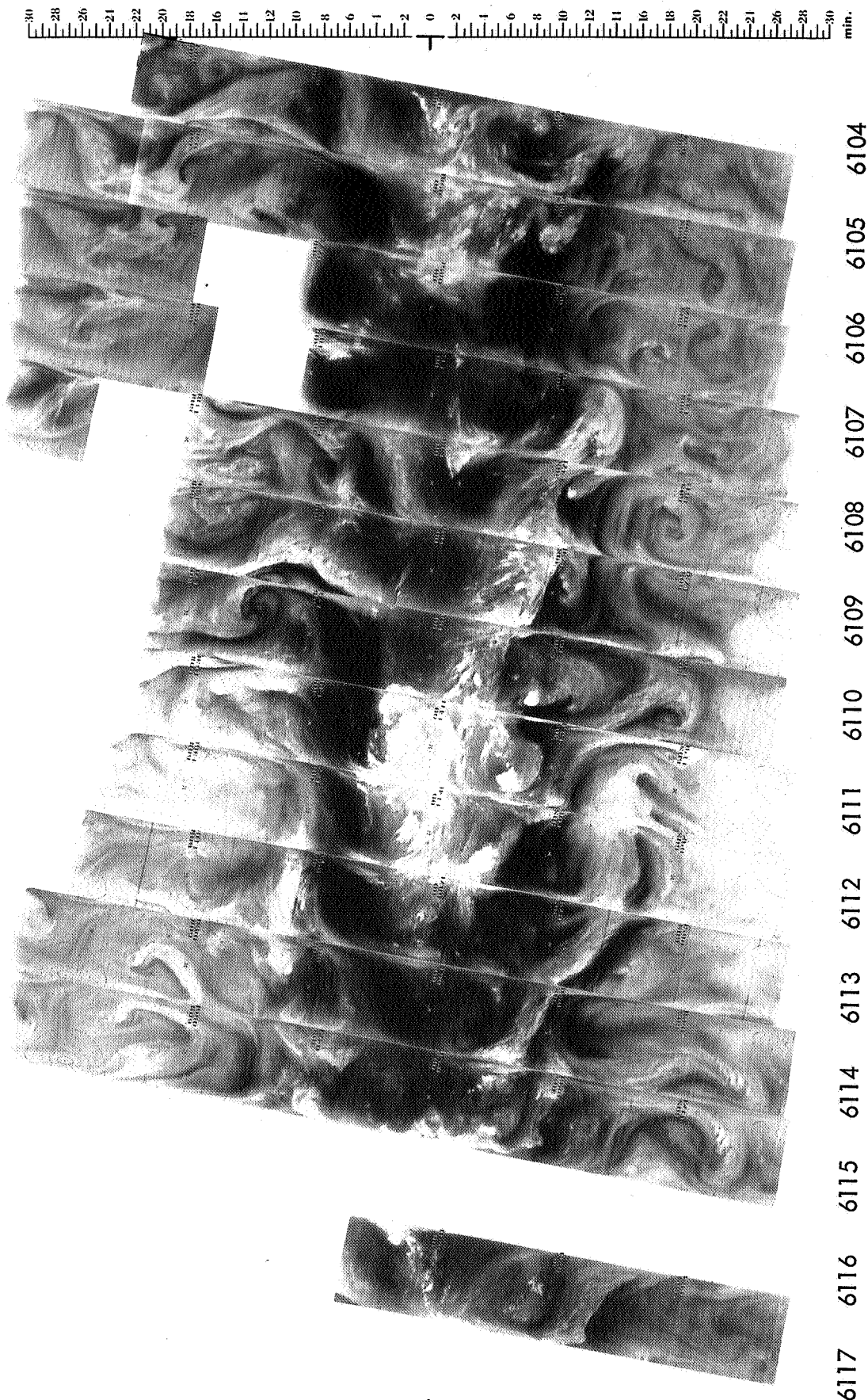
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.





11 MARCH 1974

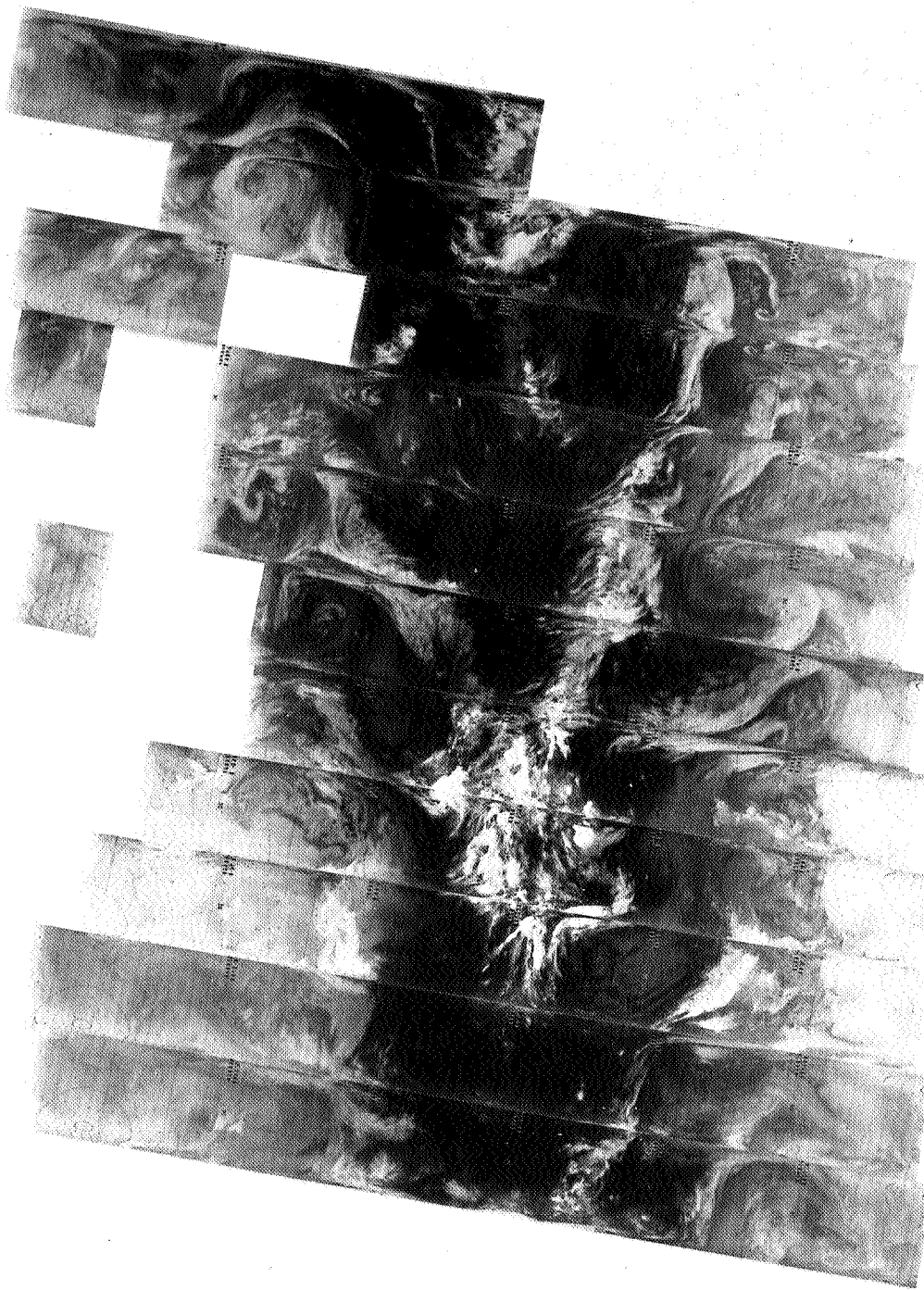
11.5 μ m



11 MARCH 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



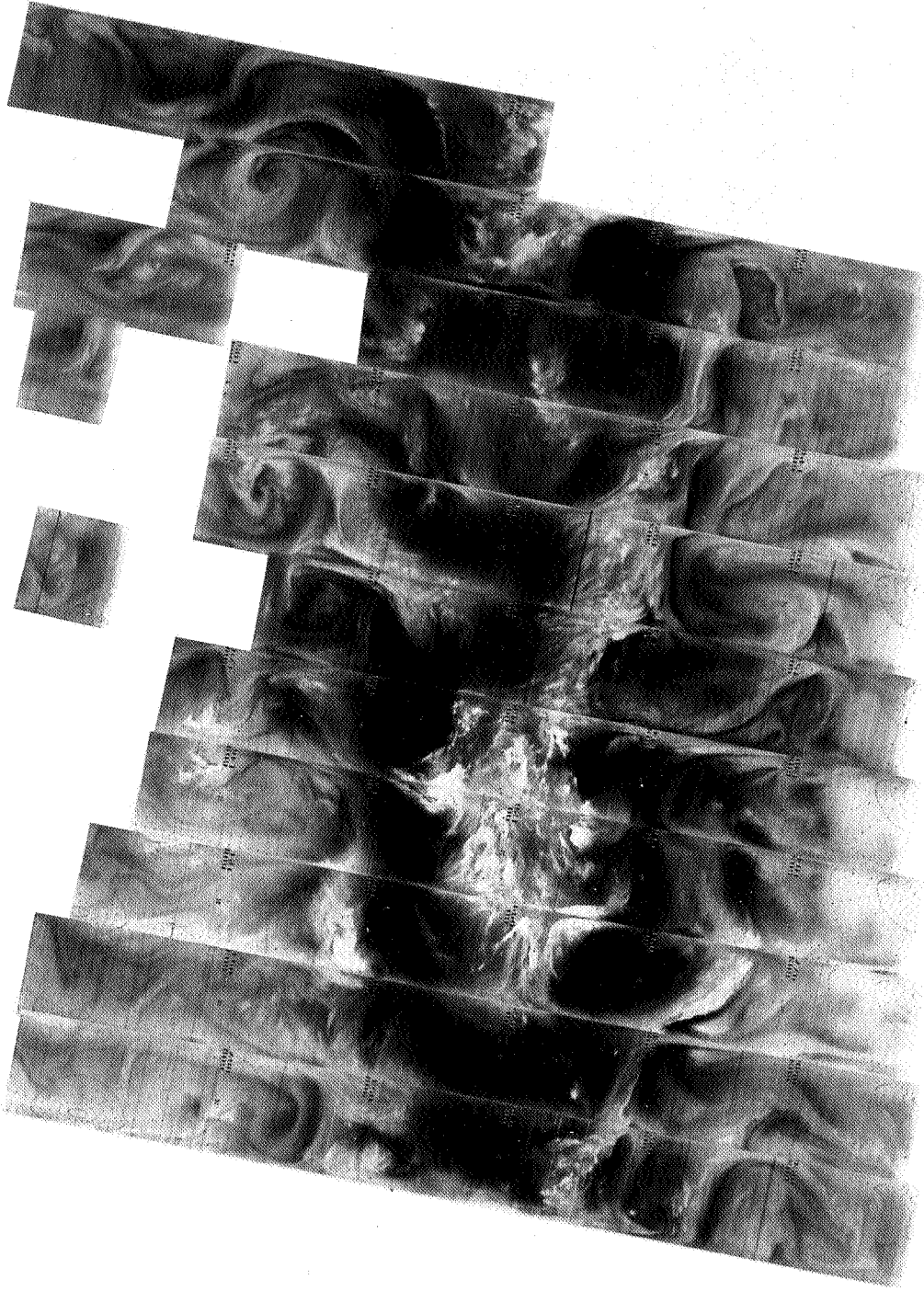
6130 6129 6128 6127 6126 6125 6124 6123 6122 6121 6120 6119 6118

12 MARCH 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



6130 6129 6128 6127 6126 6125 6124 6123 6122 6121 6120 6119 6118

12 MARCH 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



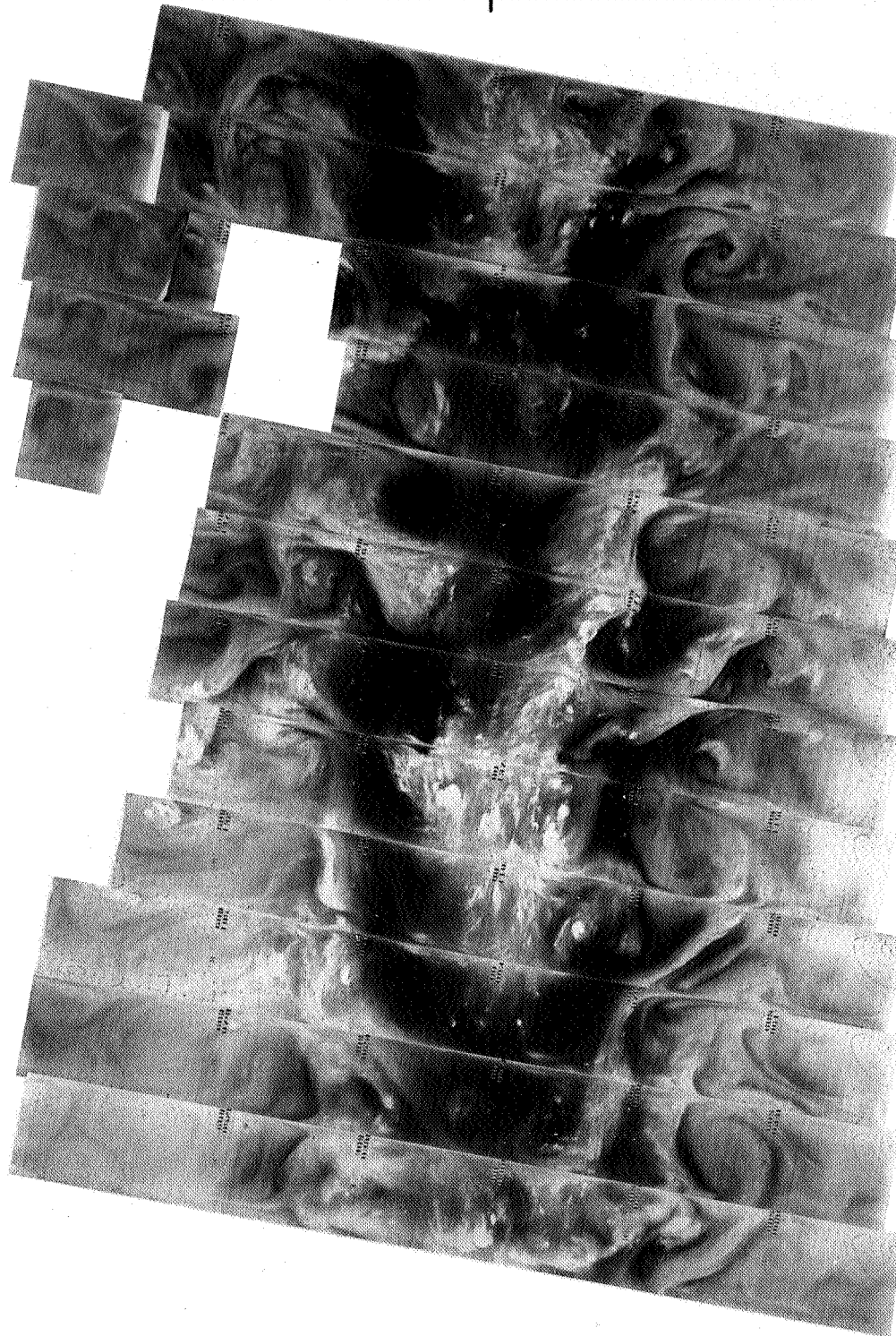
6143 6142 6141 6140 6139 6138 6137 6136 6135 6134 6133 6132 6131

13 MARCH 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

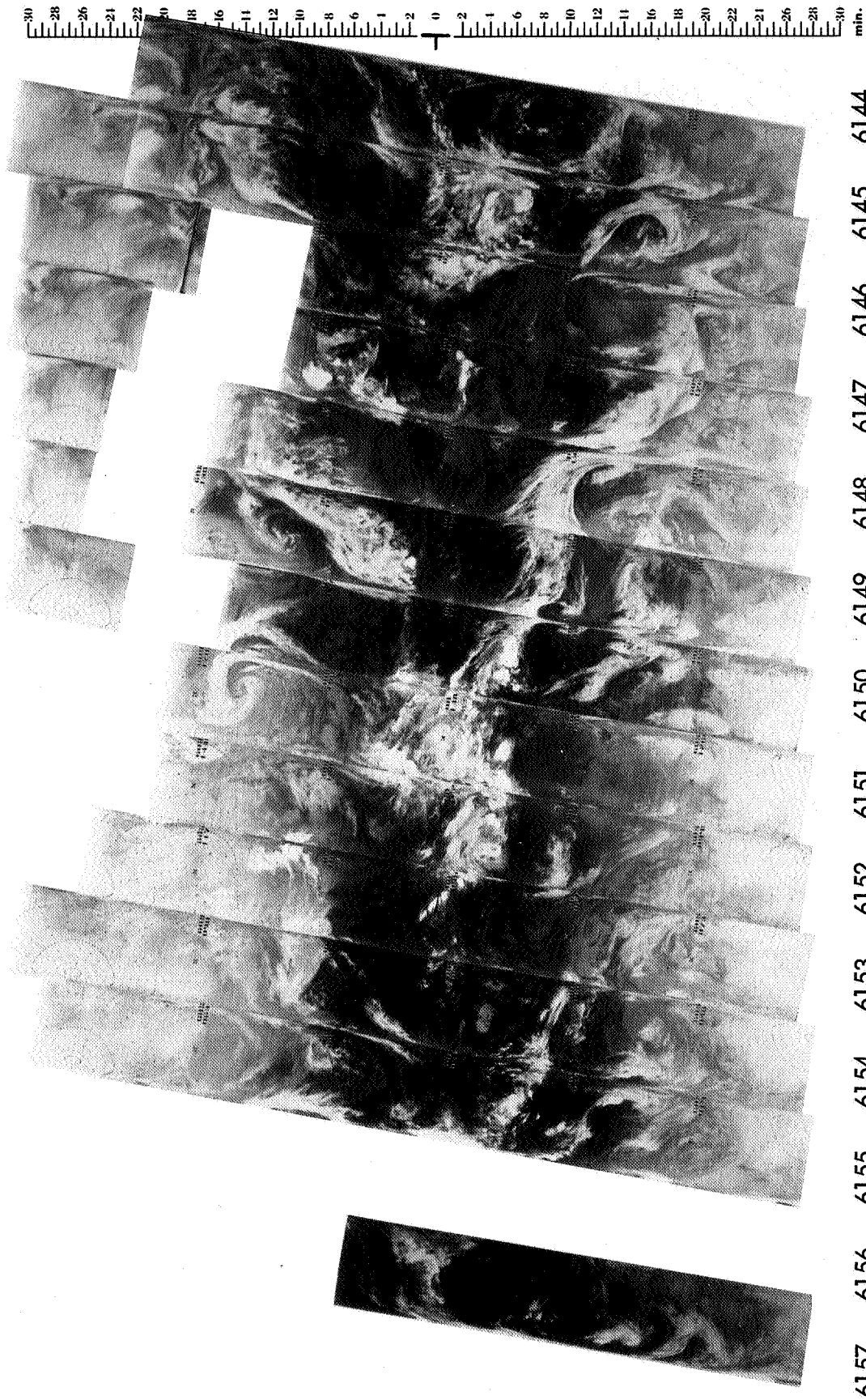


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13 MARCH 1974

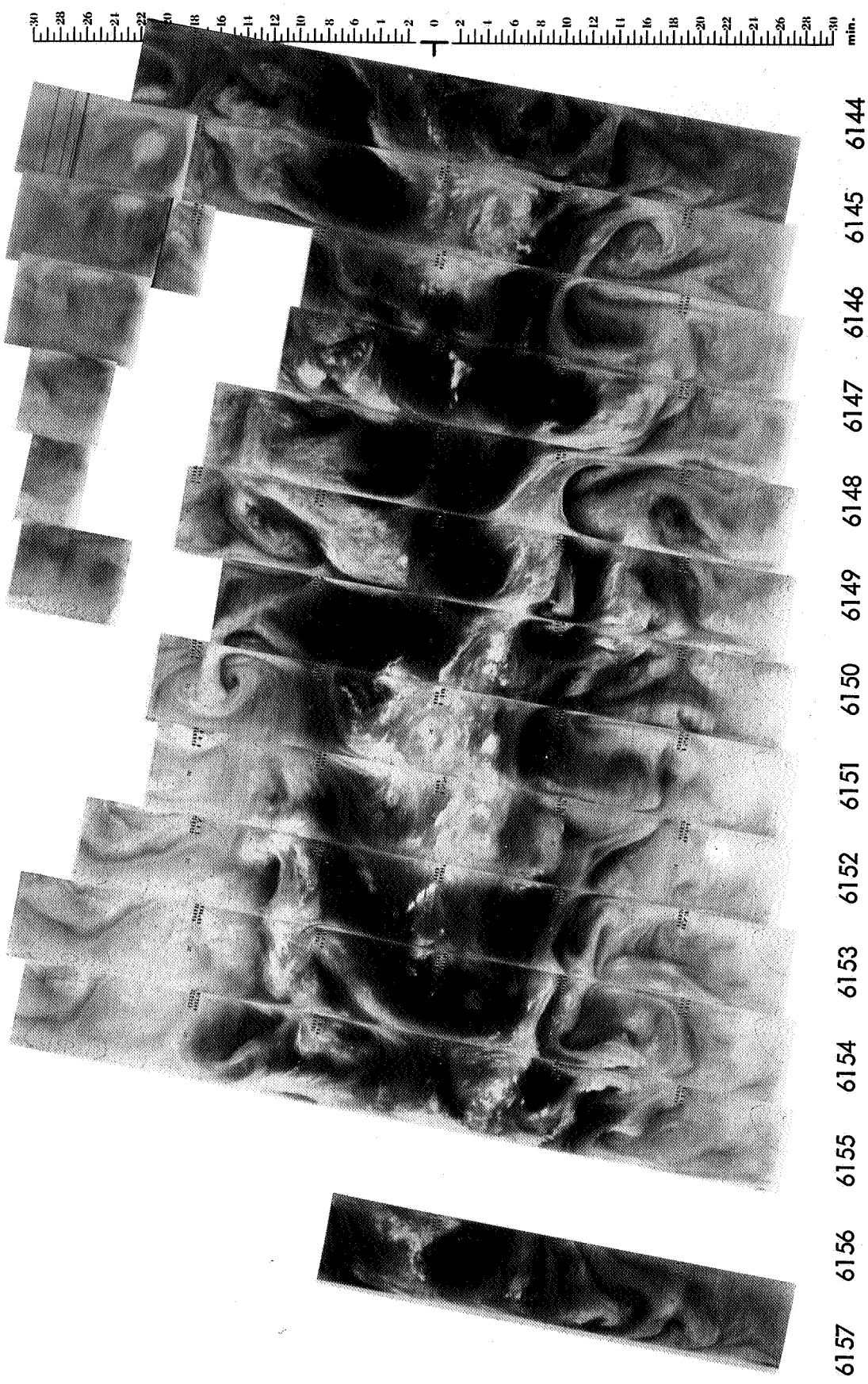
6.7 μm

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



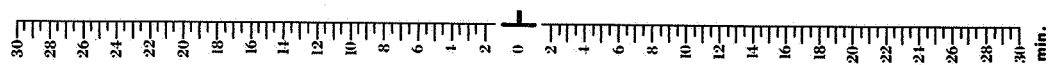
14 MARCH 1974

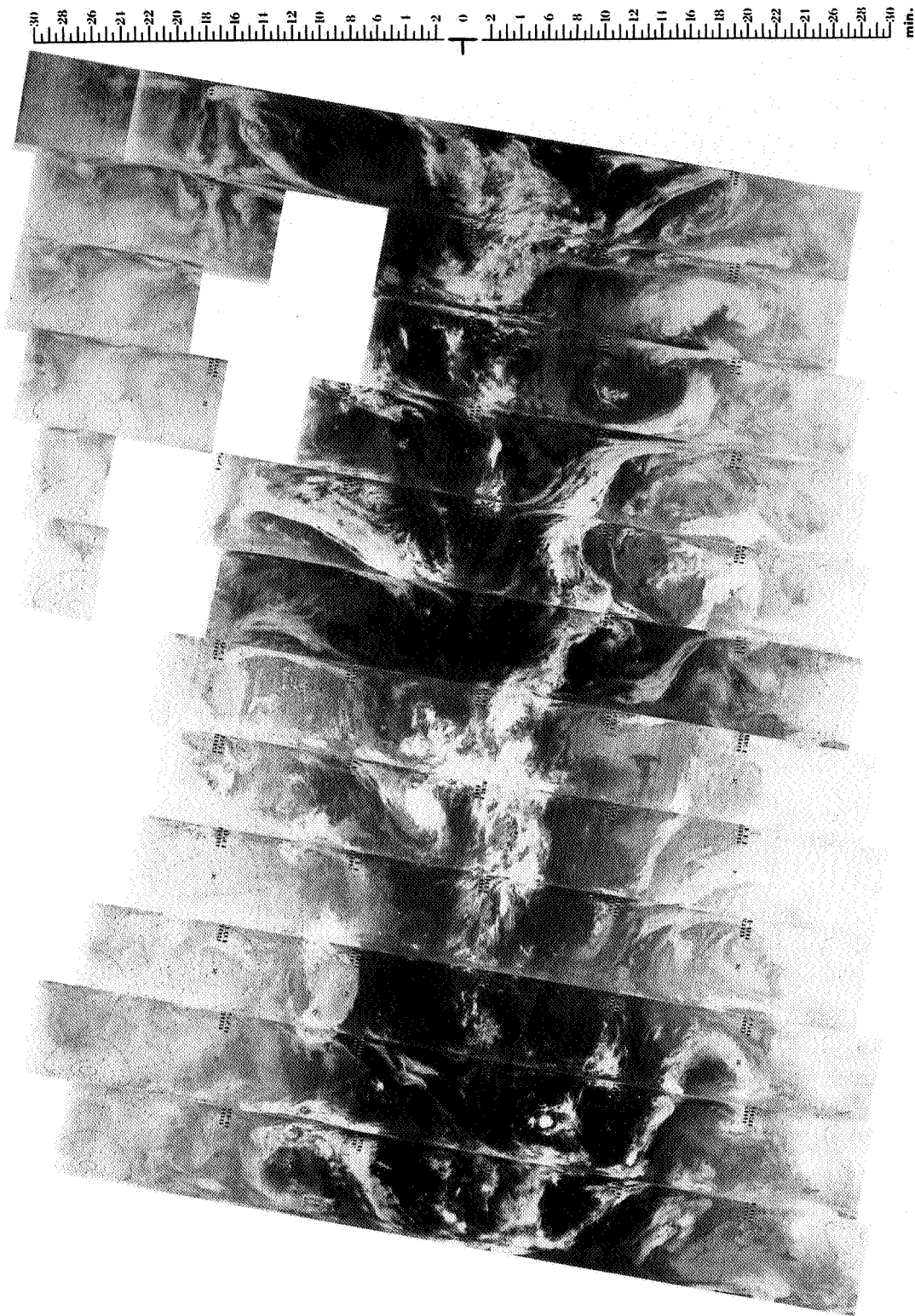
11.5 μ m



14 MARCH 1974

6.7 μ m

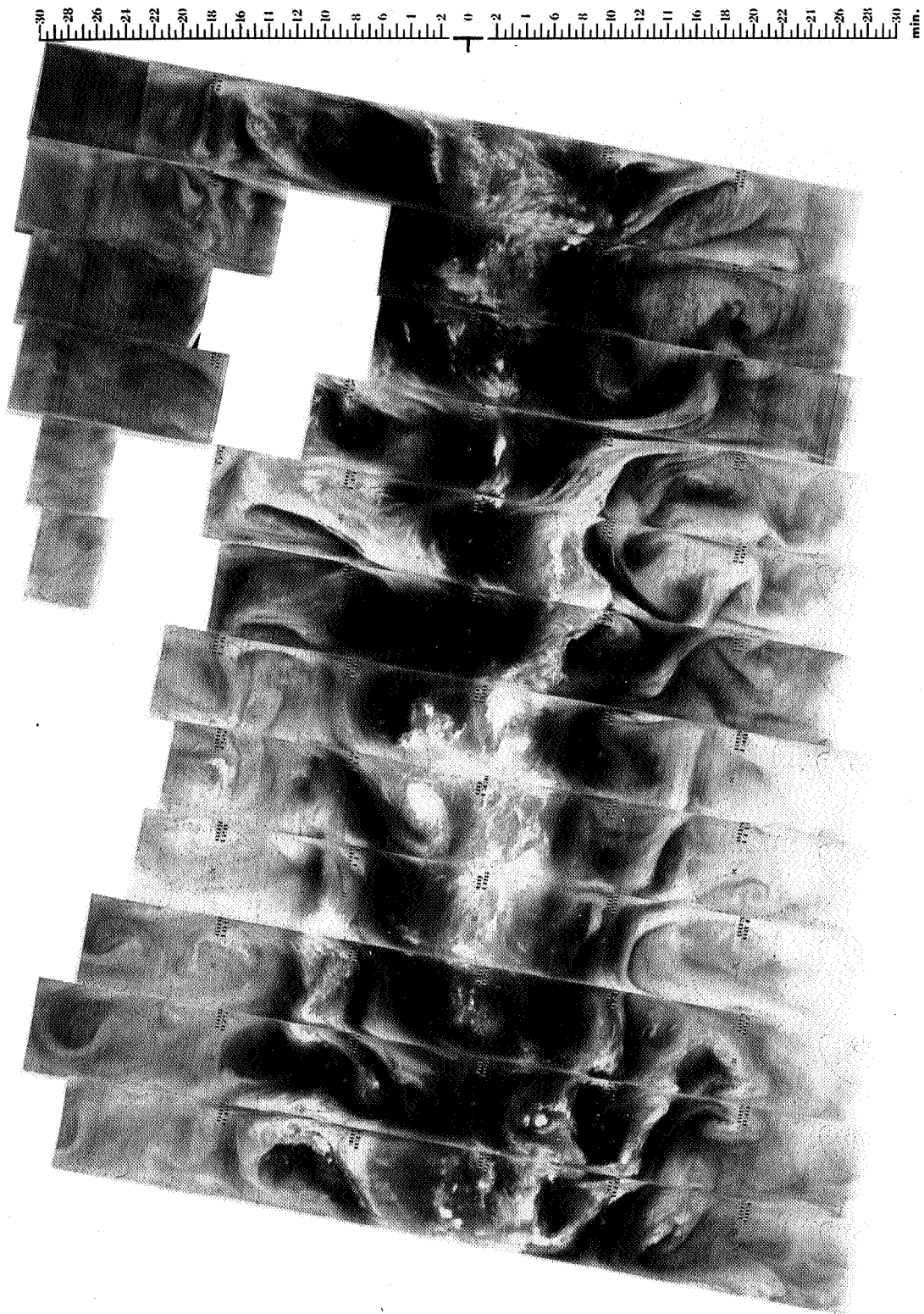




6170 6169 6168 6167 6166 6165 6164 6163 6162 6161 6160 6159 6158

15 MARCH 1974

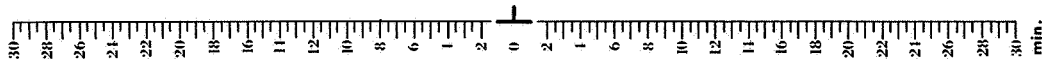
11.5 μ m



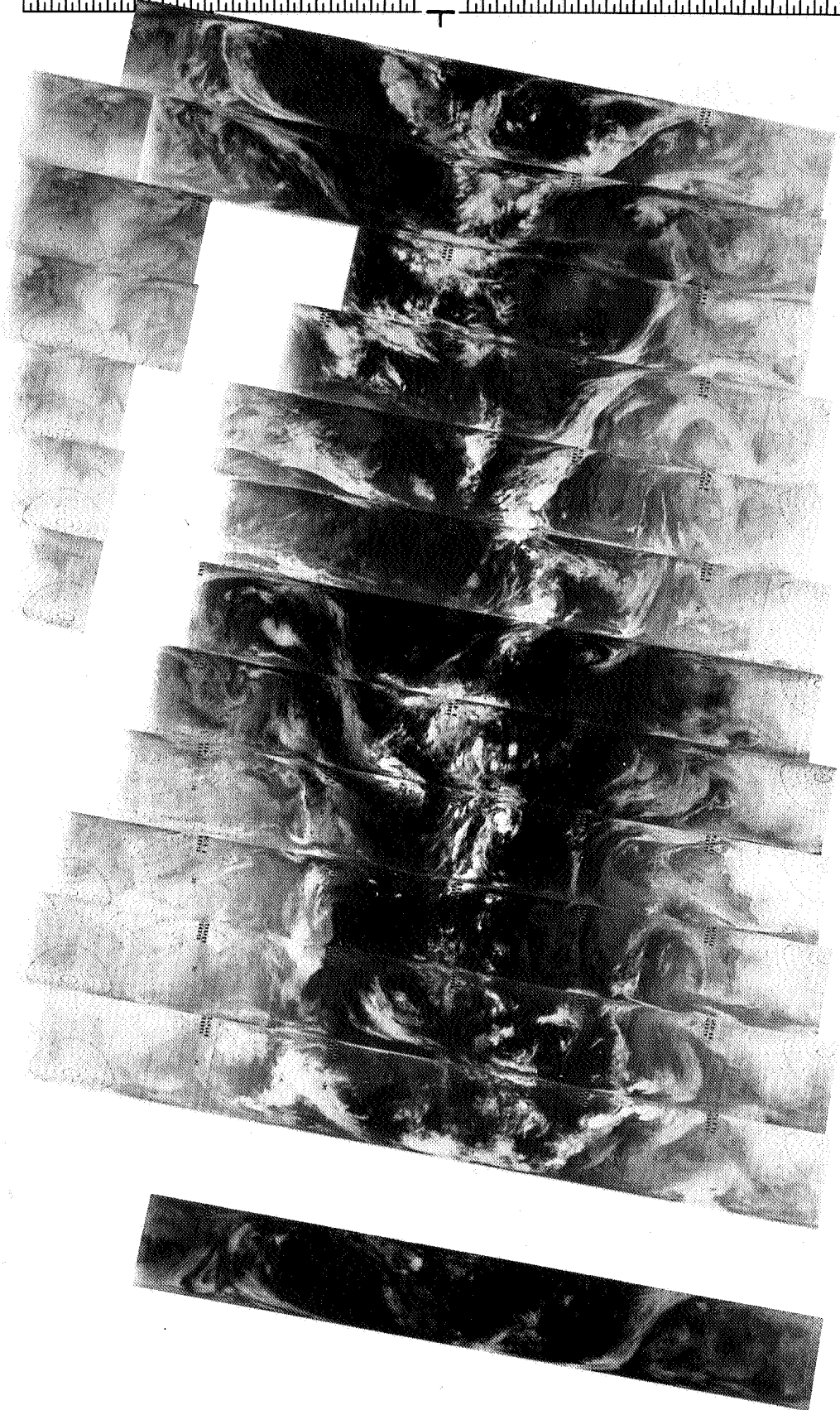
6170 6169 6168 6167 6166 6165 6164 6163 6162 6161 6160 6159 6158

15 MARCH 1974

6.7 μm



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



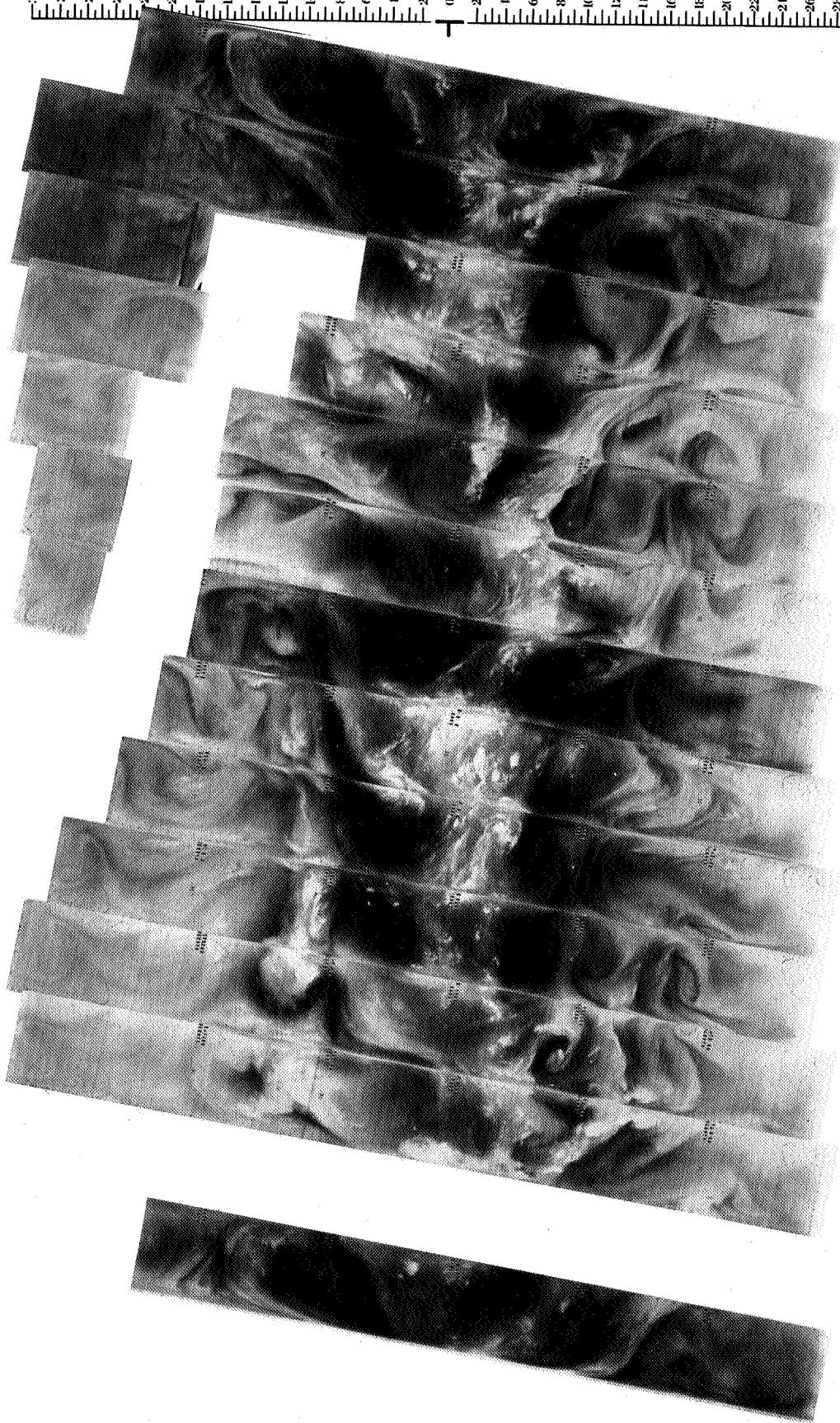
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

6184 6183 6182 6181 6180 6179 6178 6177 6176 6175 6174 6173 6172 6171

16 MARCH 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

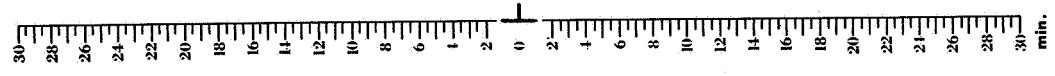
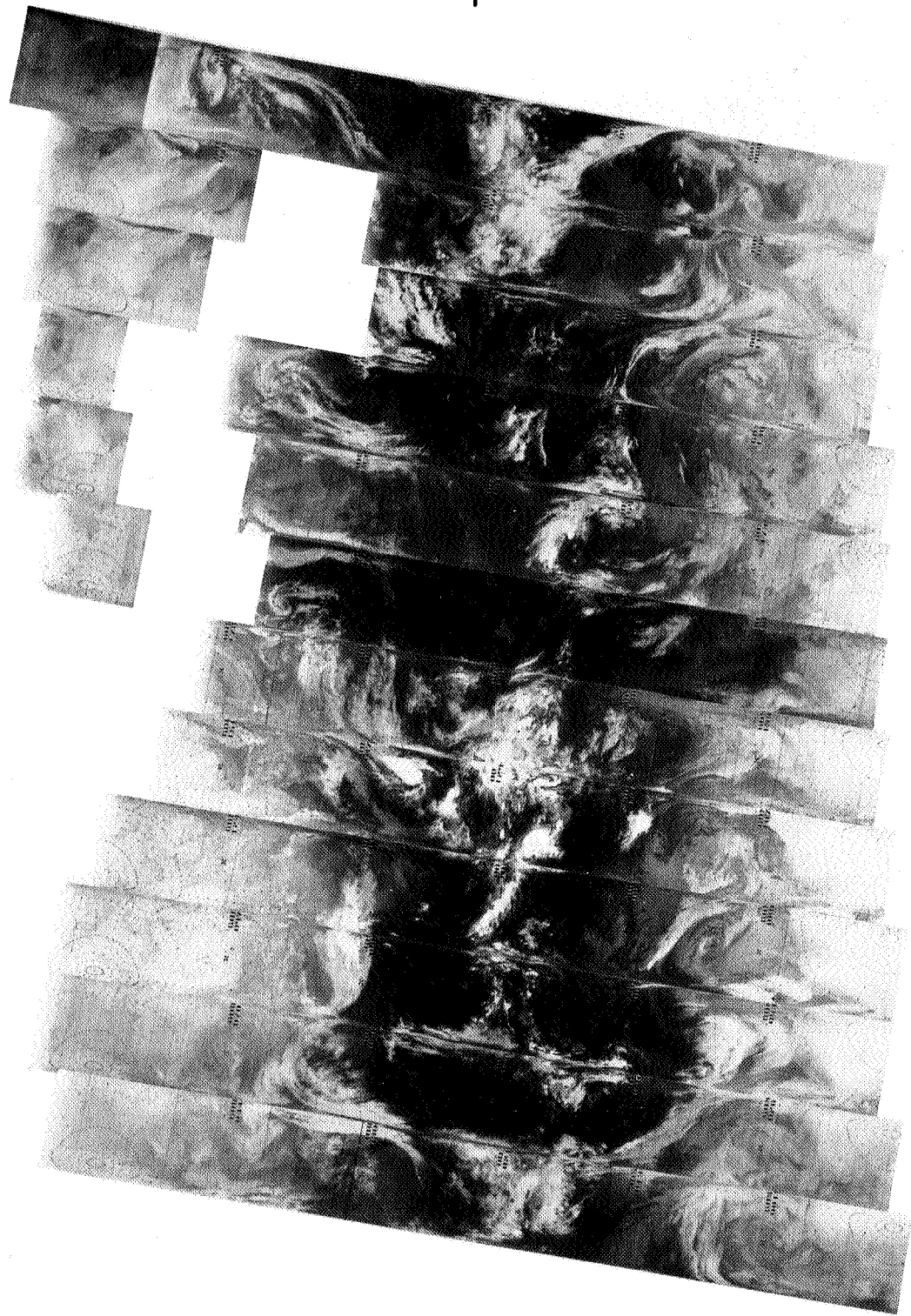
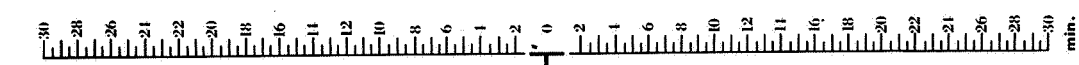


6184 6183 6182 6181 6180 6179 6178 6177 6176 6175 6174 6173 6172 6171

16 MARCH 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

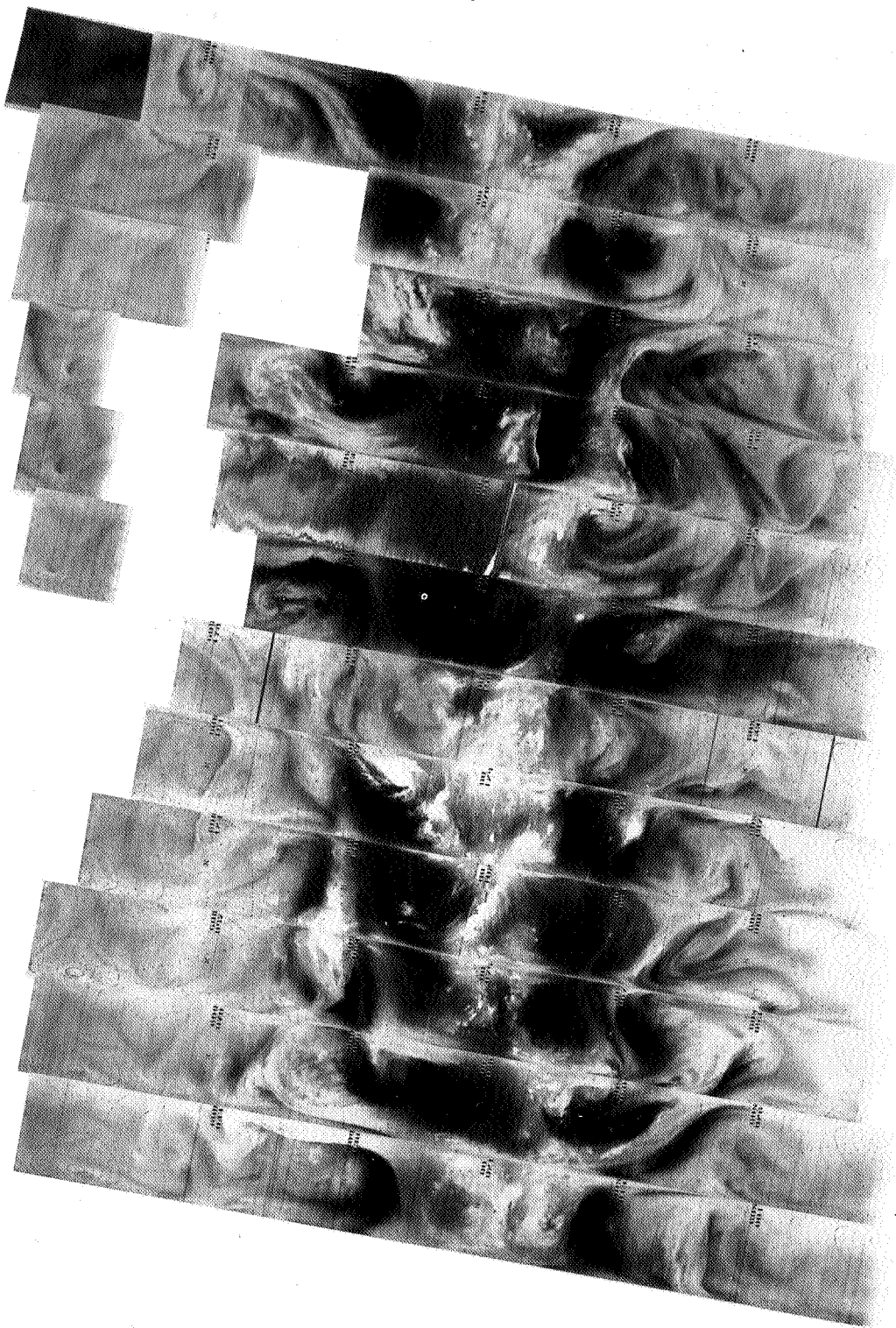


6197 6196 6195 6194 6193 6192 6191 6190 6189 6188 6187 6186 6185

17 MARCH 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



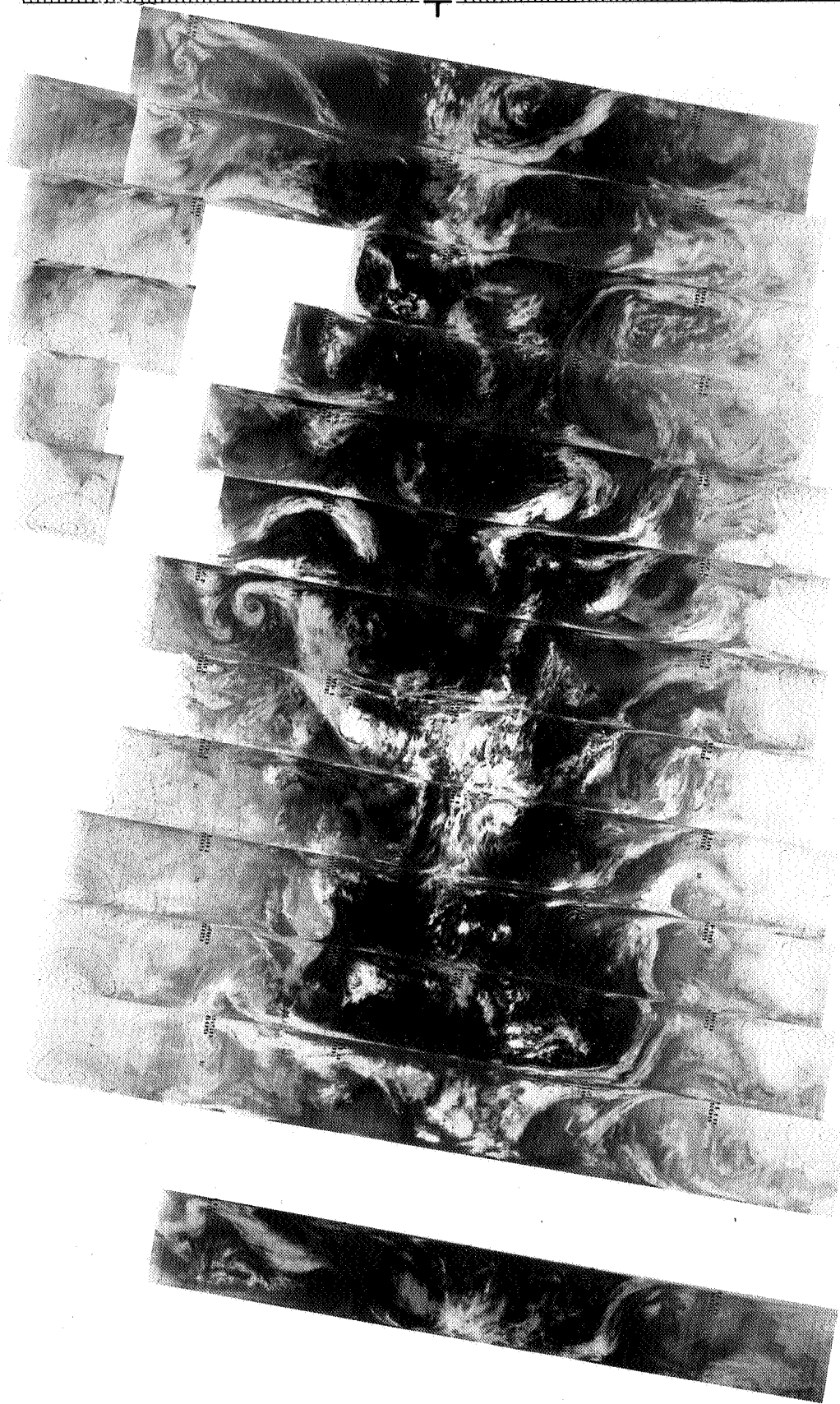
6197 6196 6195 6194 6193 6192 6191 6190 6189 6188 6187 6186 6185

17 MARCH 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 mil.



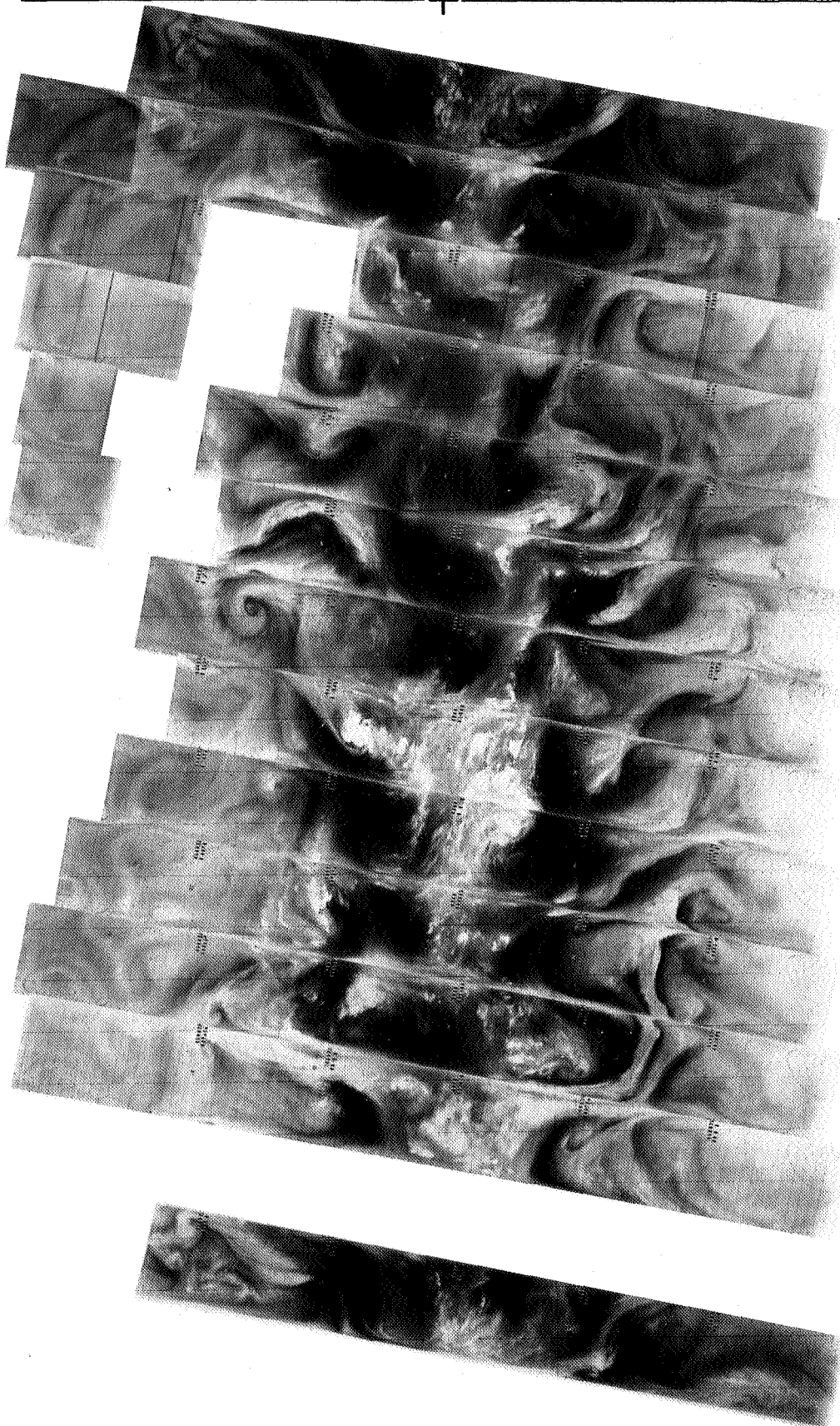
6211 6210 6209 6208 6207 6206 6205 6204 6203 6202 6201 6200 6199 6198

18 MARCH 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 mil.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



6211 6210 6209 6208 6207 6206 6205 6204 6203 6202 6201 6200 6199 6198

18 MARCH 1974

6.7 μm

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



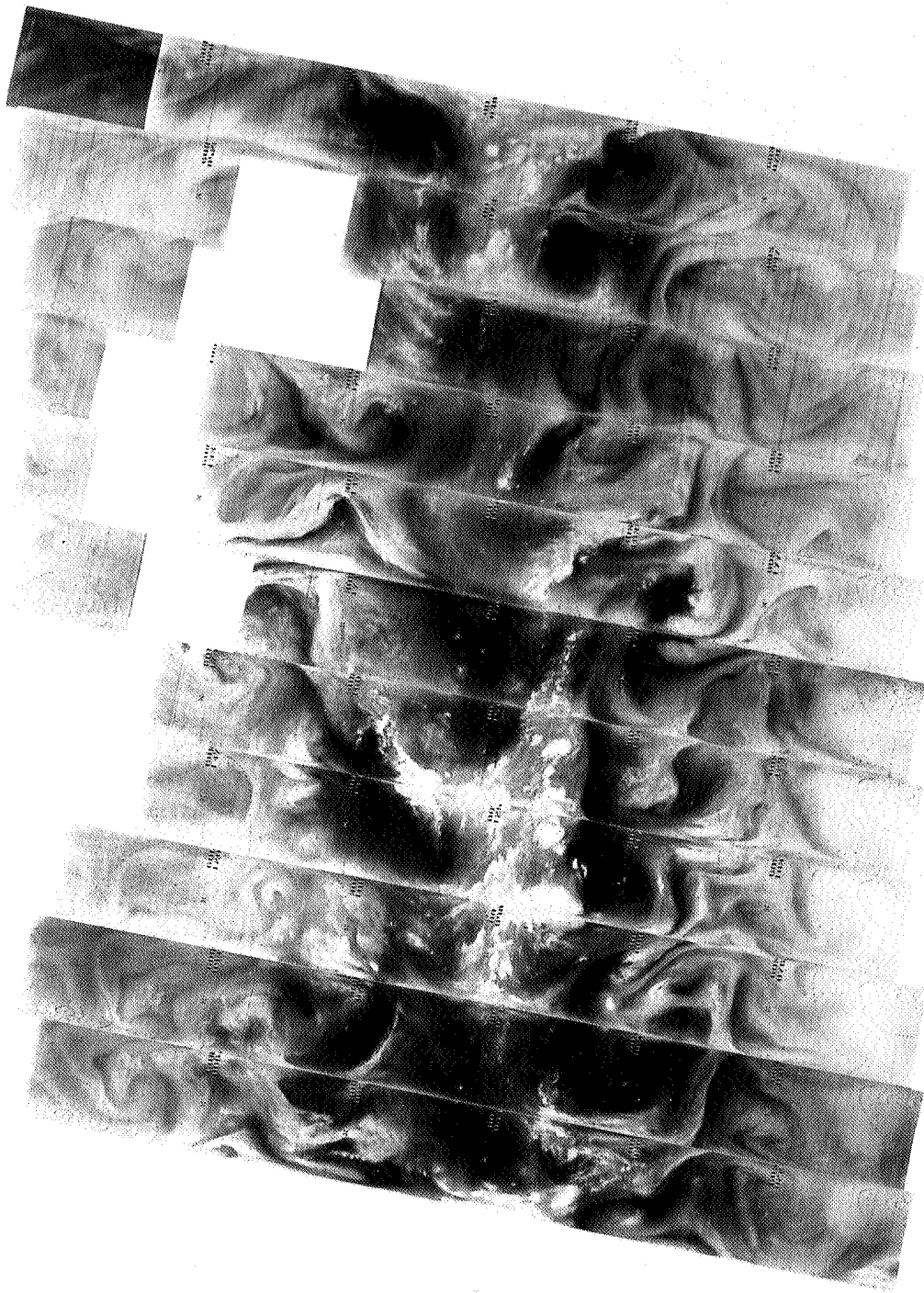
6224 6223 6222 6221 6220 6219 6218 6217 6216 6215 6214 6213 6212

19 MARCH 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



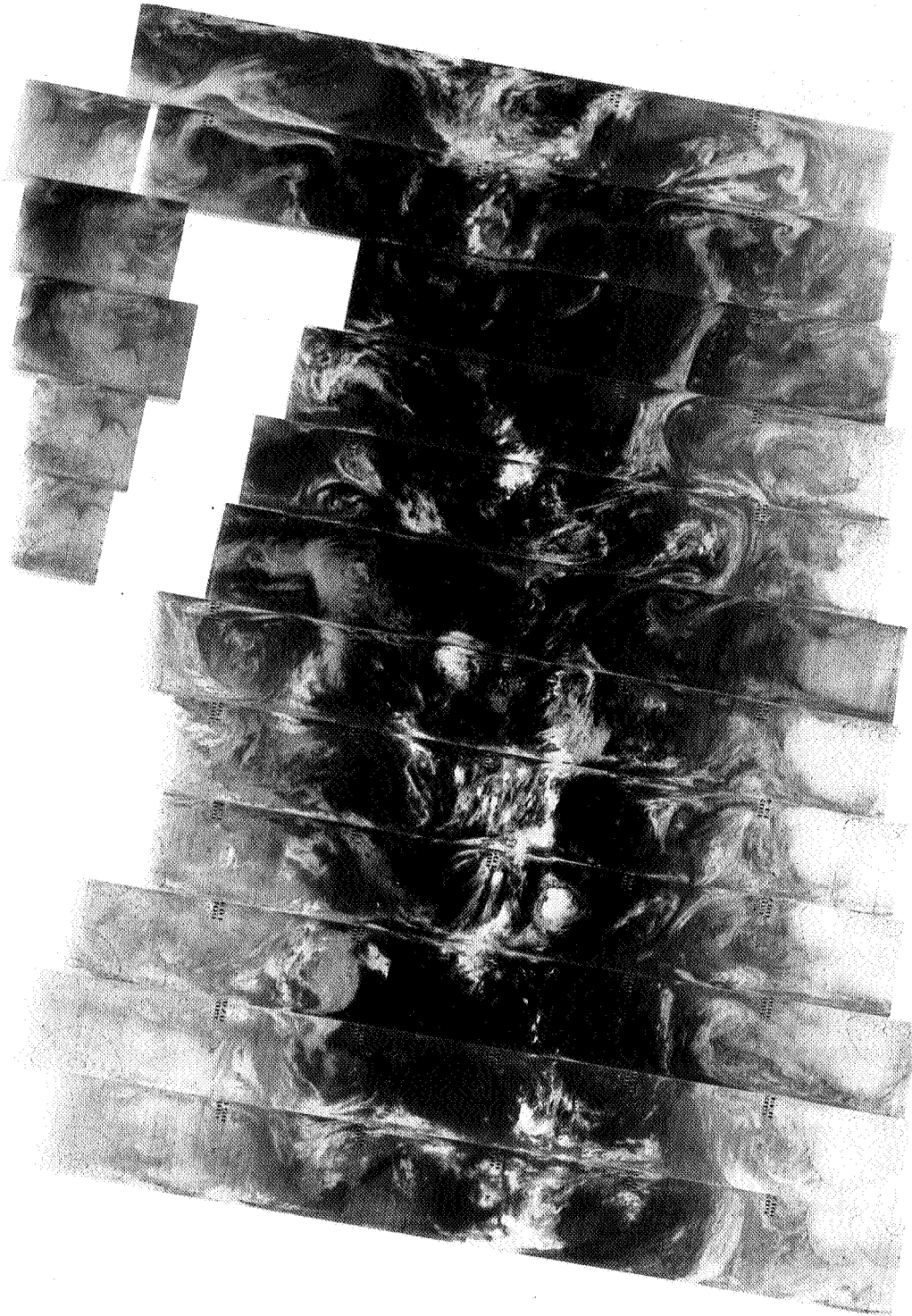
6224 6223 6222 6221 6220 6219 6218 6217 6216 6215 6214 6213 6212

19 MARCH 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



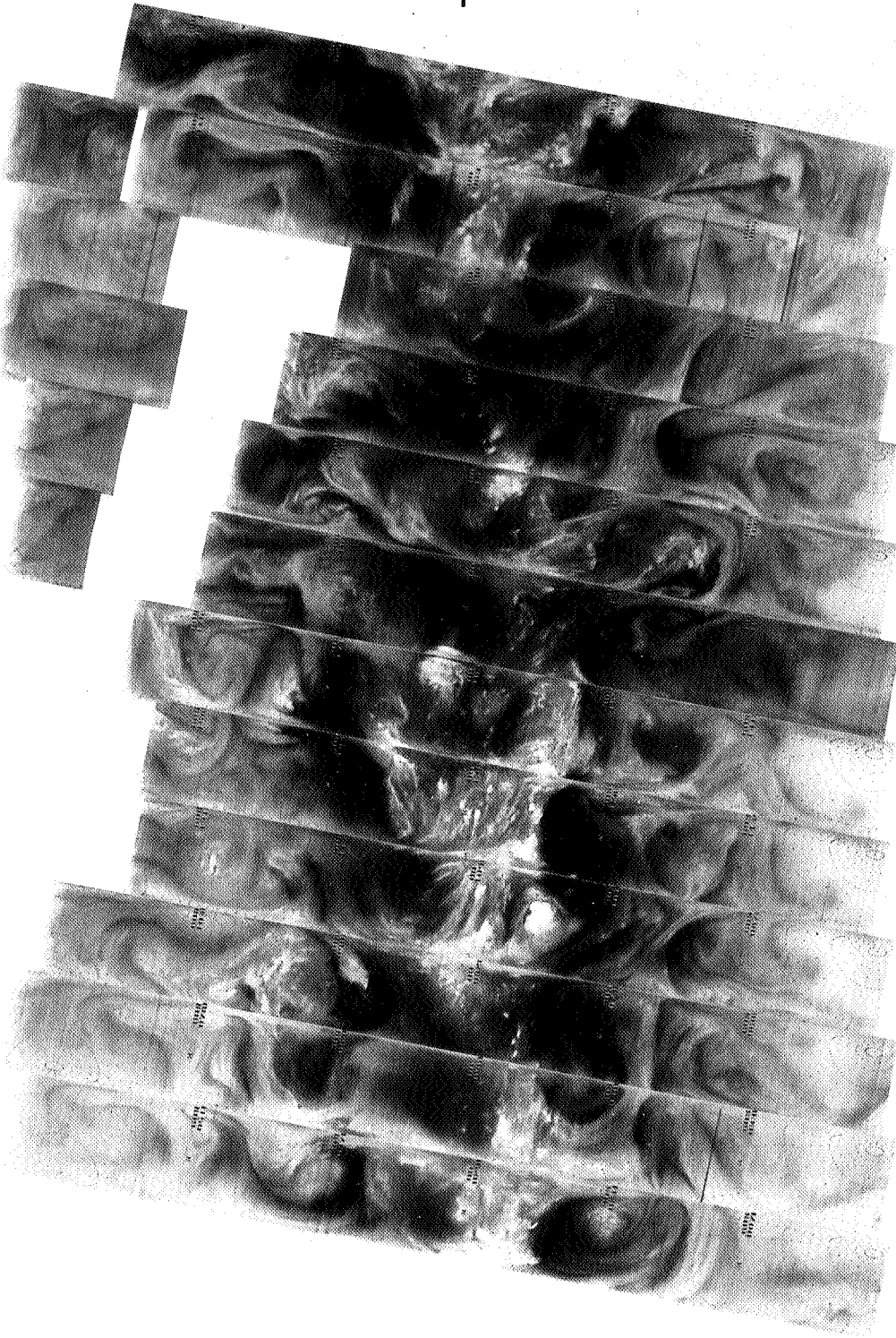
6237 6236 6235 6234 6233 6232 6231 6230 6229 6228 6227 6226 6225

20 MARCH 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



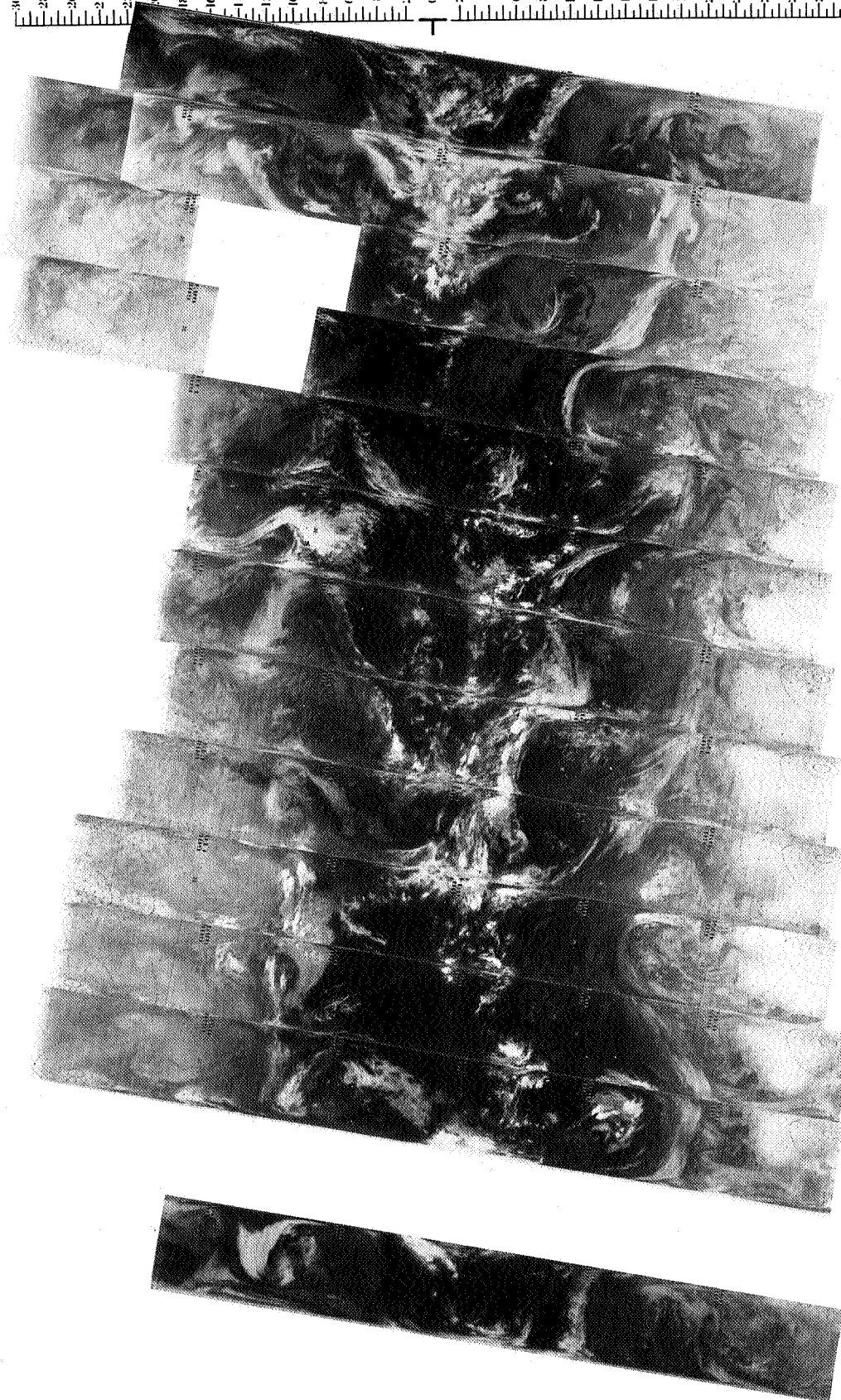
6237 6236 6235 6234 6233 6232 6231 6230 6229 6228 6227 6226 6225

20 MARCH 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

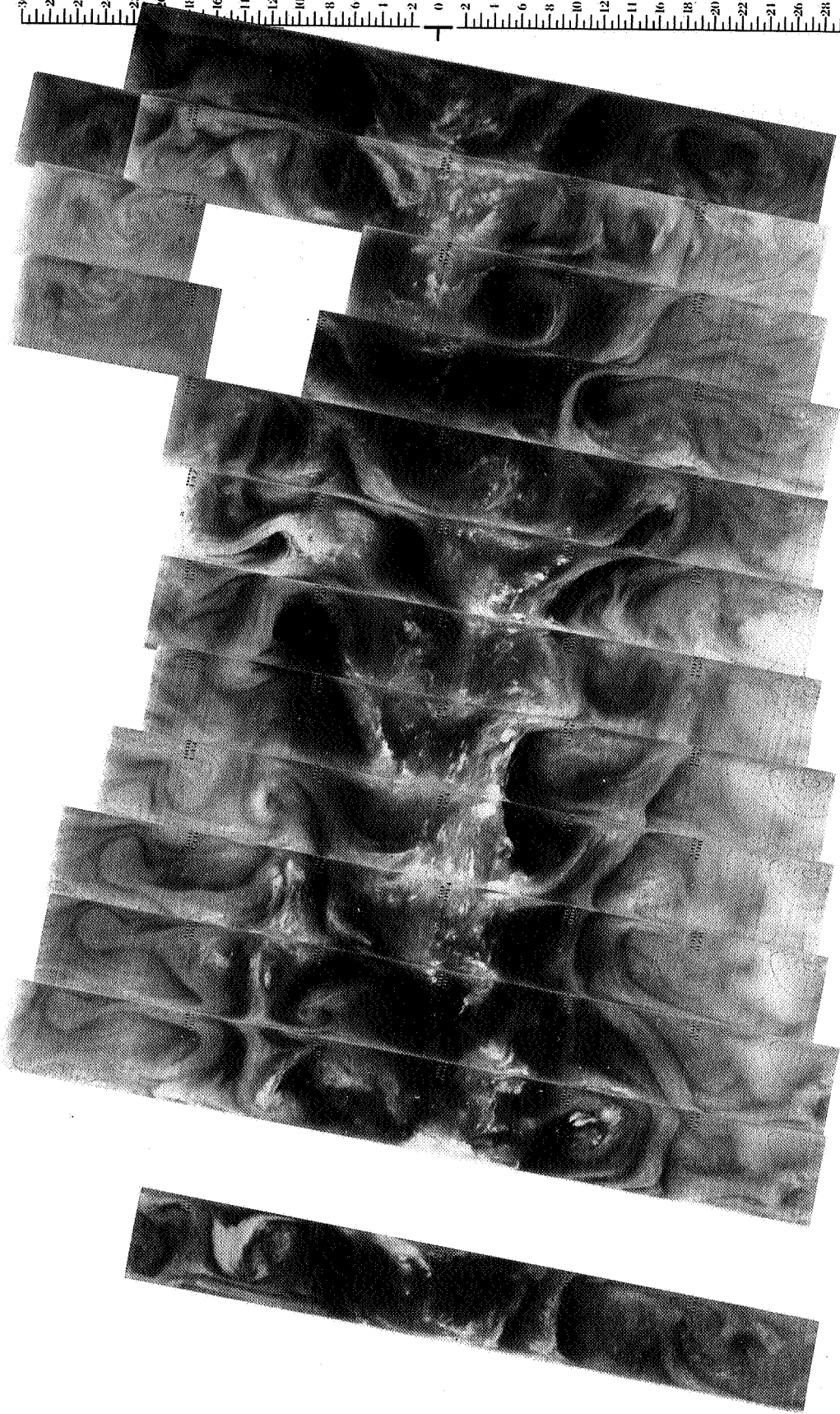
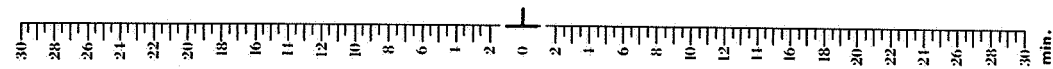
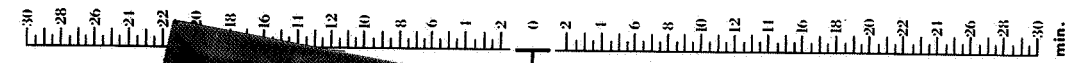


6251 6250 6249 6248 6247 6246 6245 6244 6243 6242 6241 6240 6339 6238

21 MARCH 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

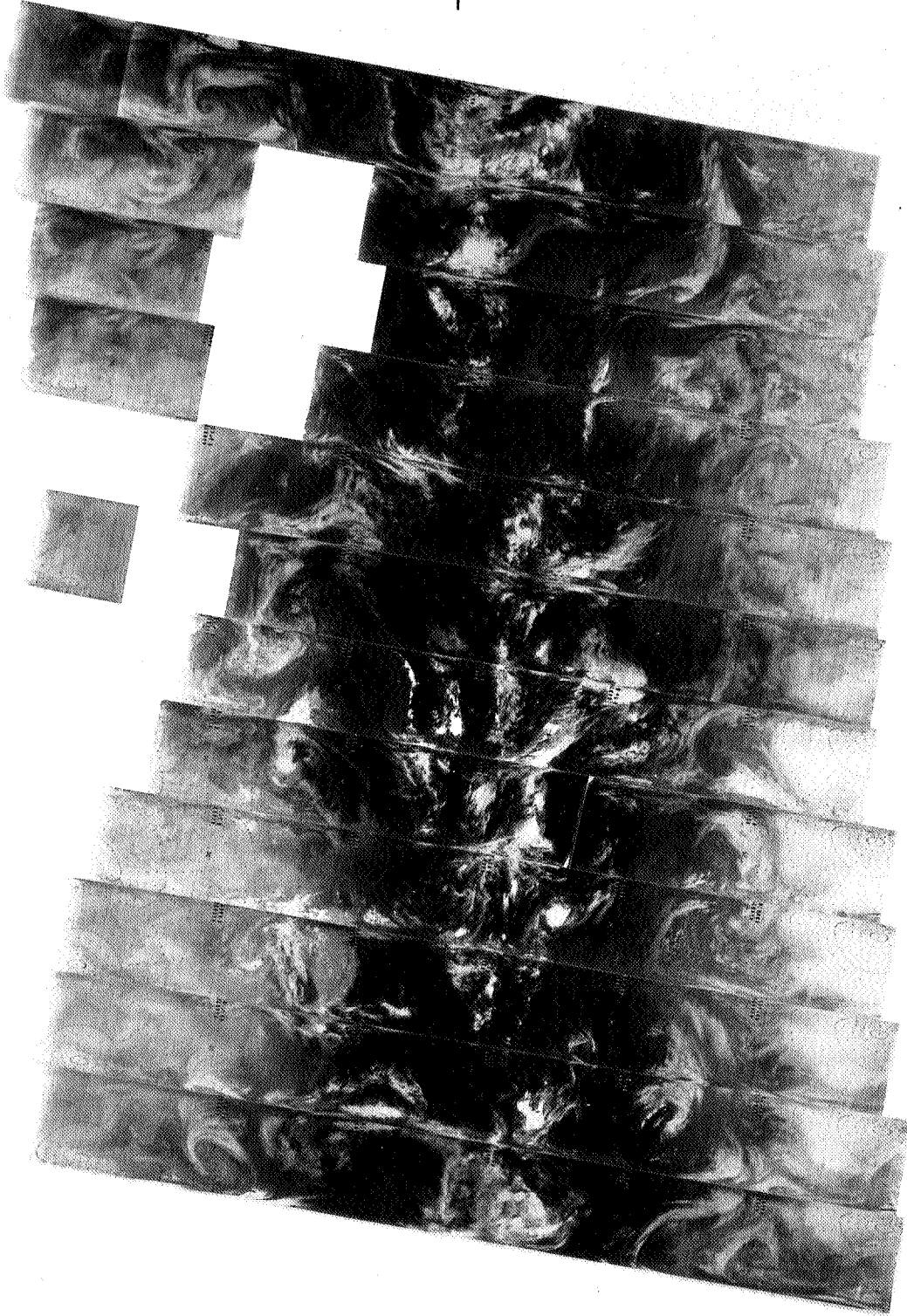


6251 6250 6249 6248 6247 6246 6245 6244 6243 6242 6241 6240 6239 6238

21 MARCH 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



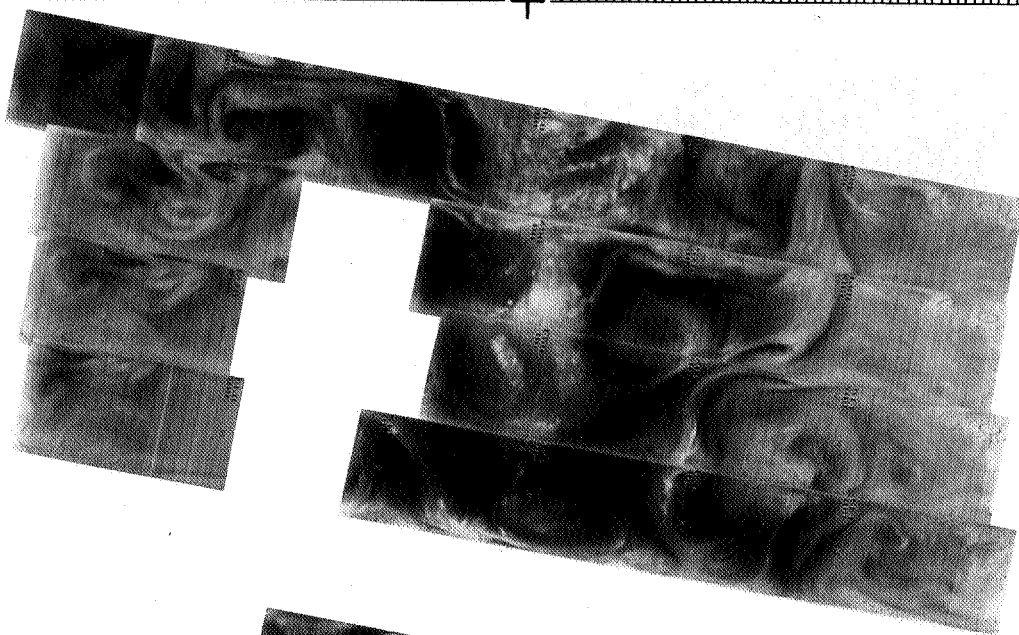
6264 6263 6262 6261 6260 6259 6258 6257 6256 6255 6254 6253 6252

22 MARCH 1974

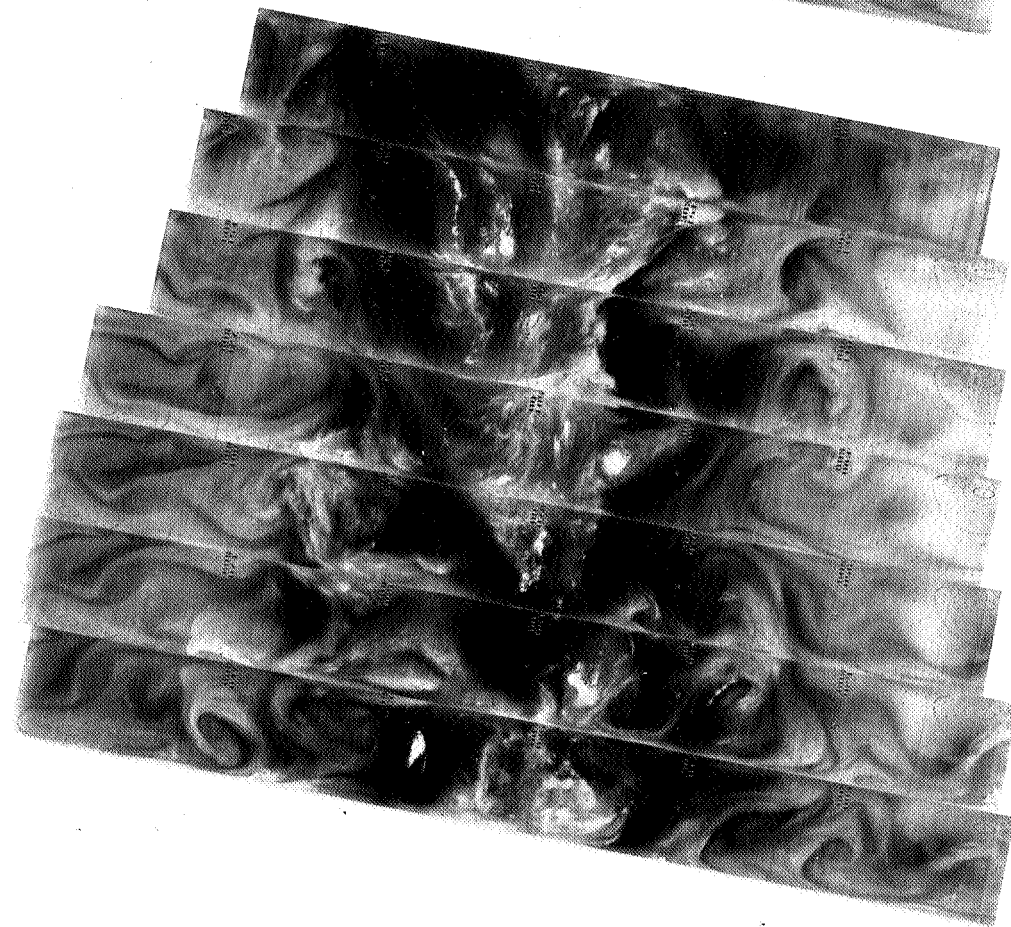
11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

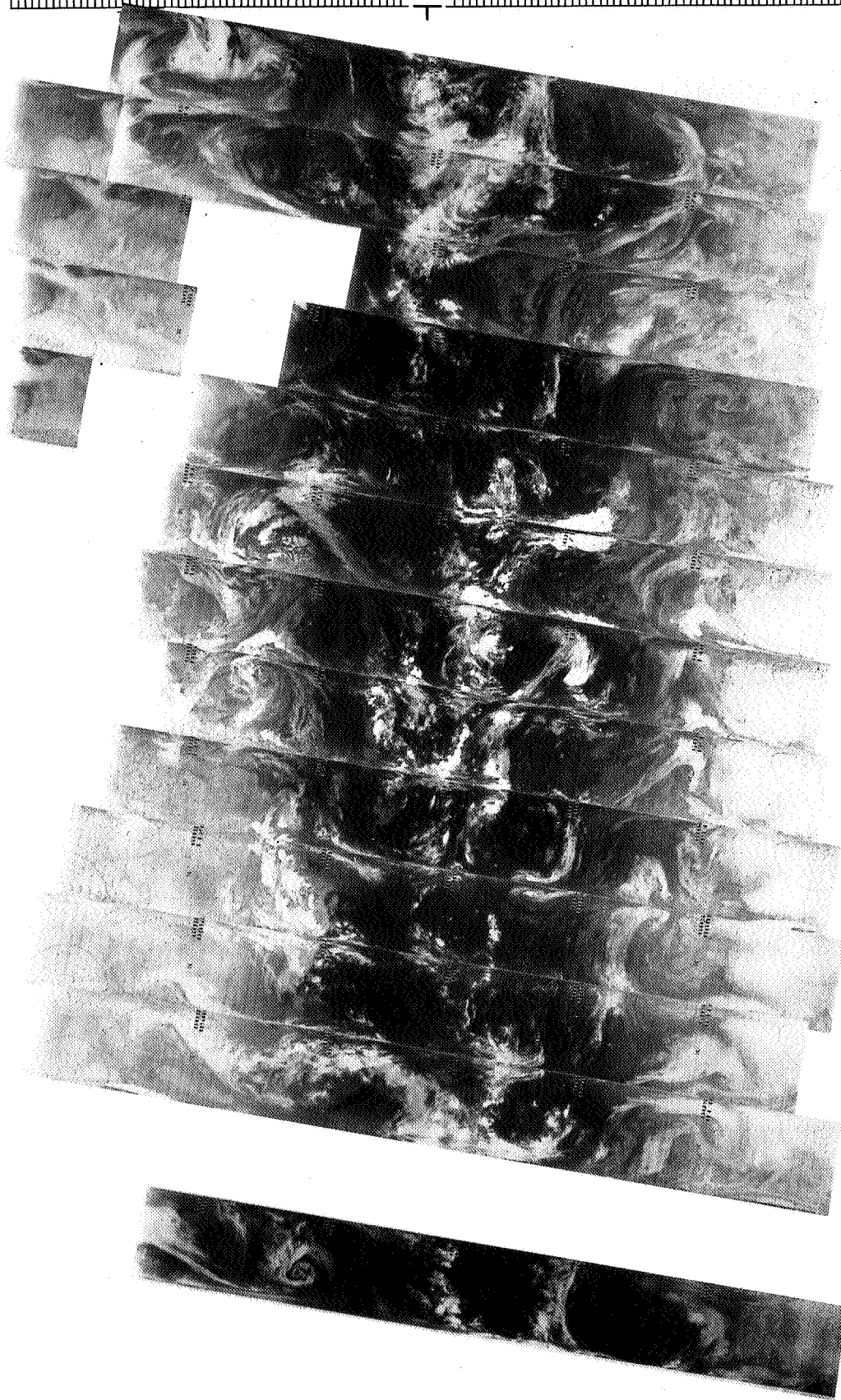


6264 6263 6262 6261 6260 6259 6258 6257 6256 6255 6254 6253 6252

22 MARCH 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



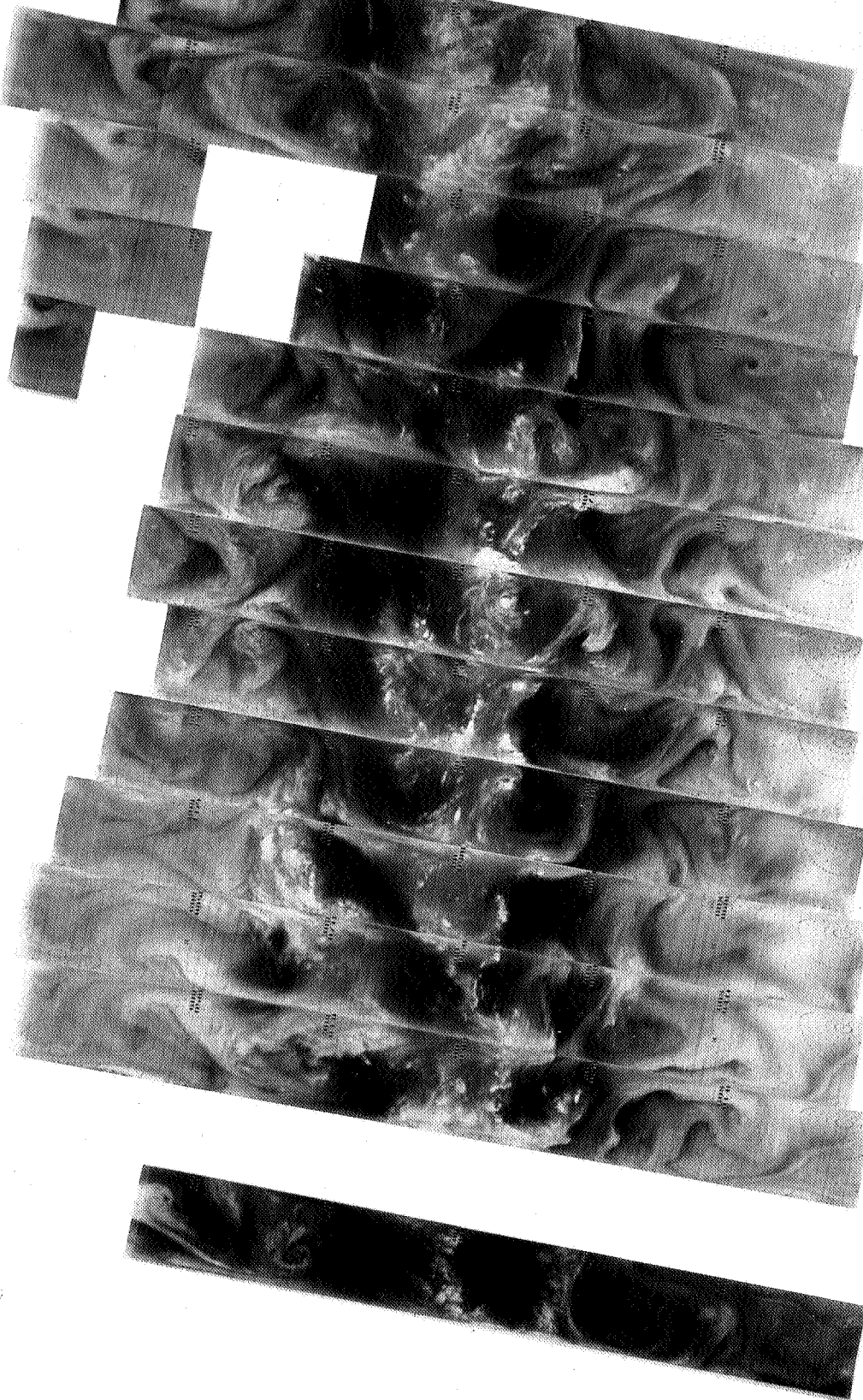
6278 6277 6276 6275 6274 6273 6272 6271 6270 6269 6268 6267 6266 6265

23 MARCH 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



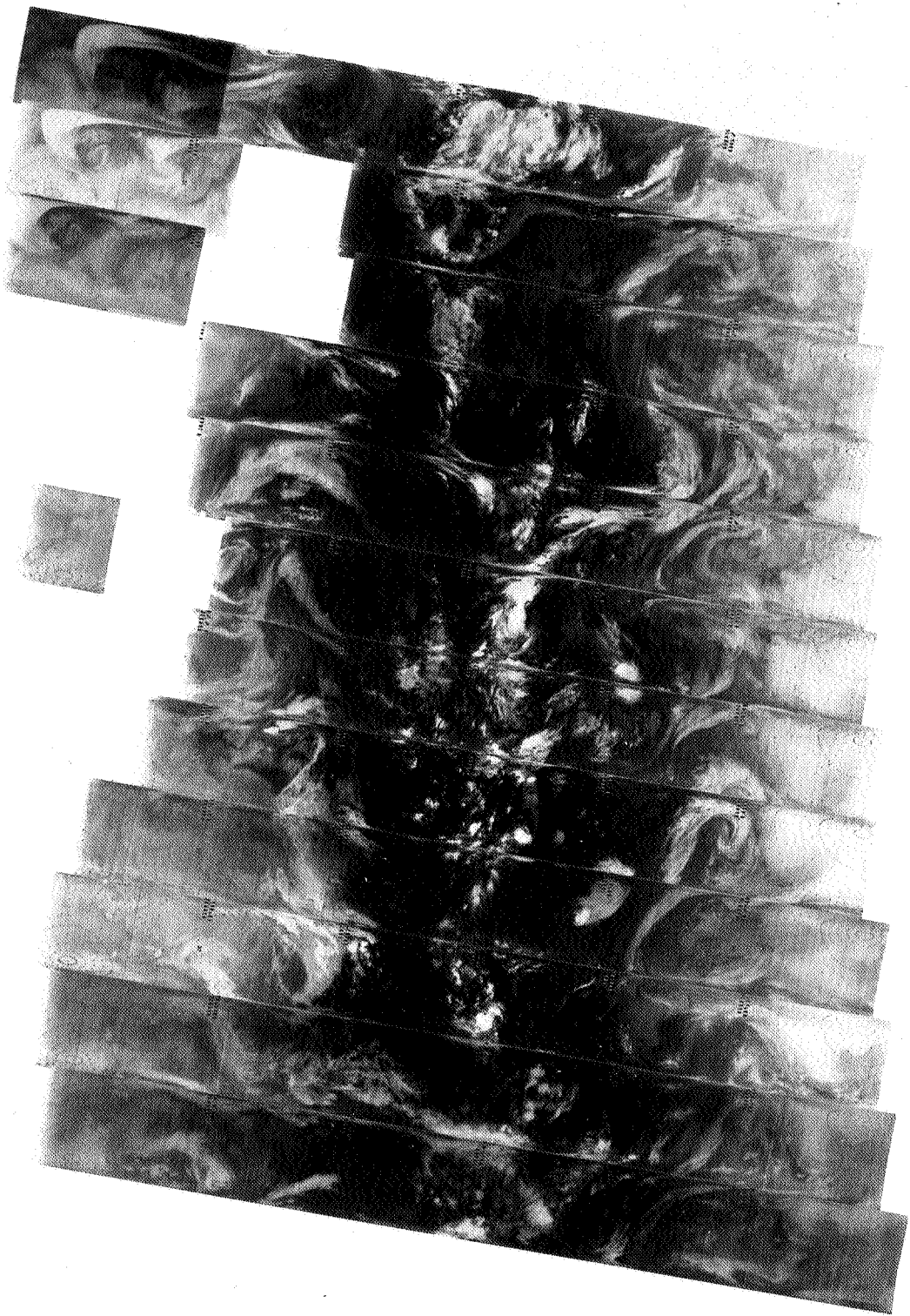
6278 6277 6276 6275 6274 6273 6272 6271 6270 6269 6268 6267 6266 6265

23 MARCH 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



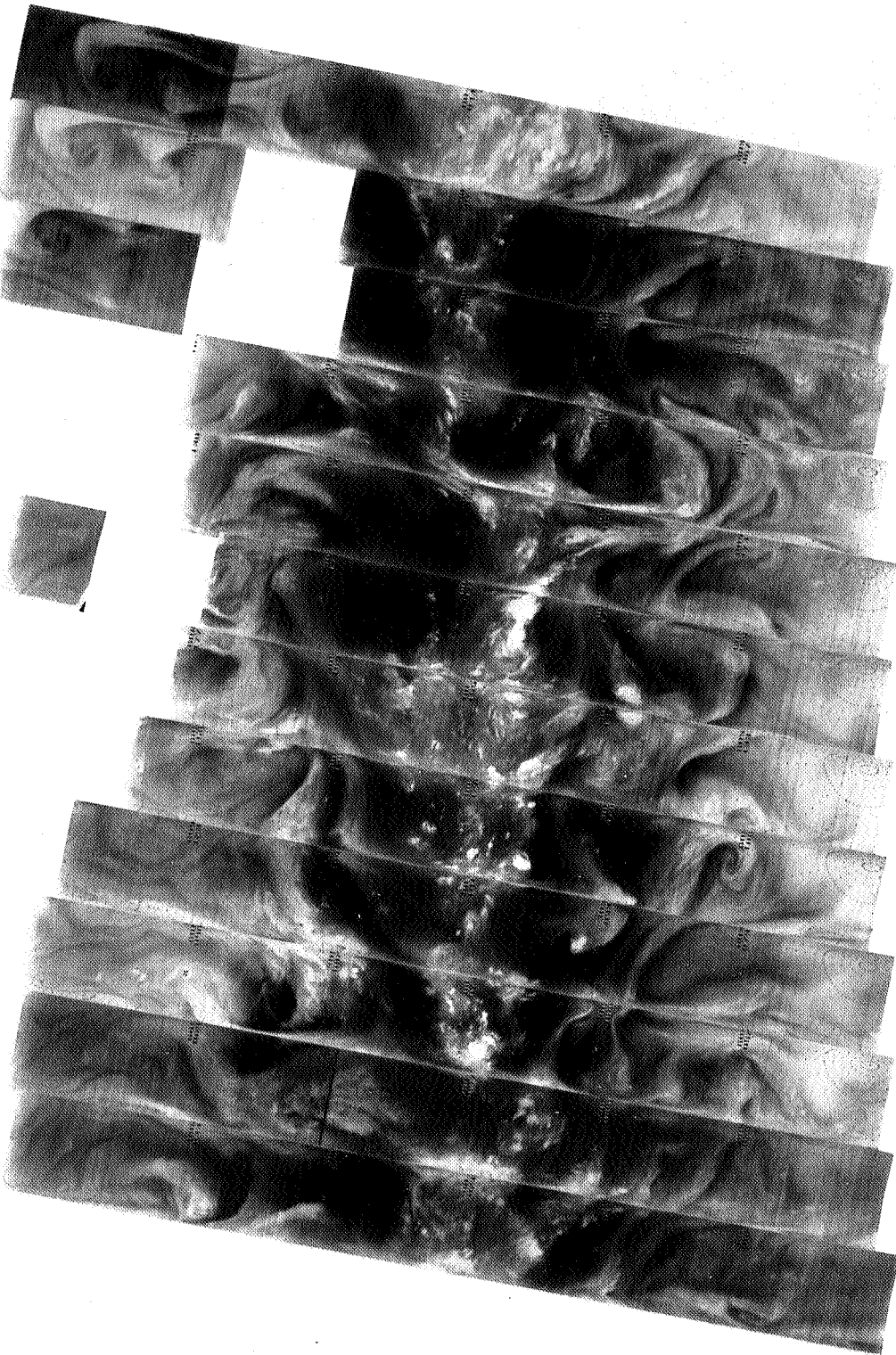
6291 6290 6289 6288 6287 6286 6285 6284 6283 6282 6281 6280 6279

24 MARCH 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



6291 6290 6289 6288 6287 6286 6285 6284 6283 6282 6281 6280 6279

24 MARCH 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



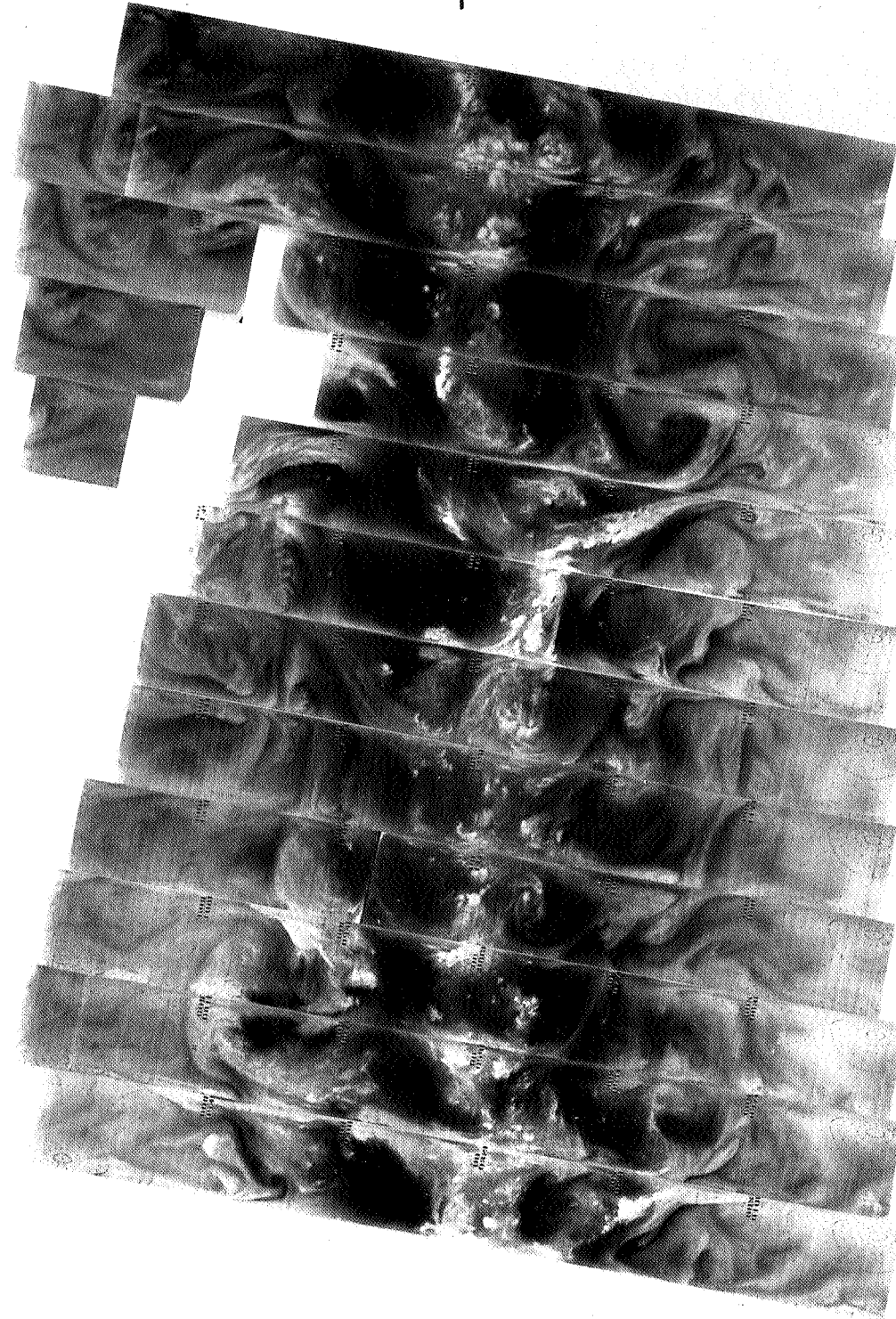
6204 6303 6302 6301 6300 6299 6298 6297 6296 6295 6294 6293 6292

25 MARCH 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



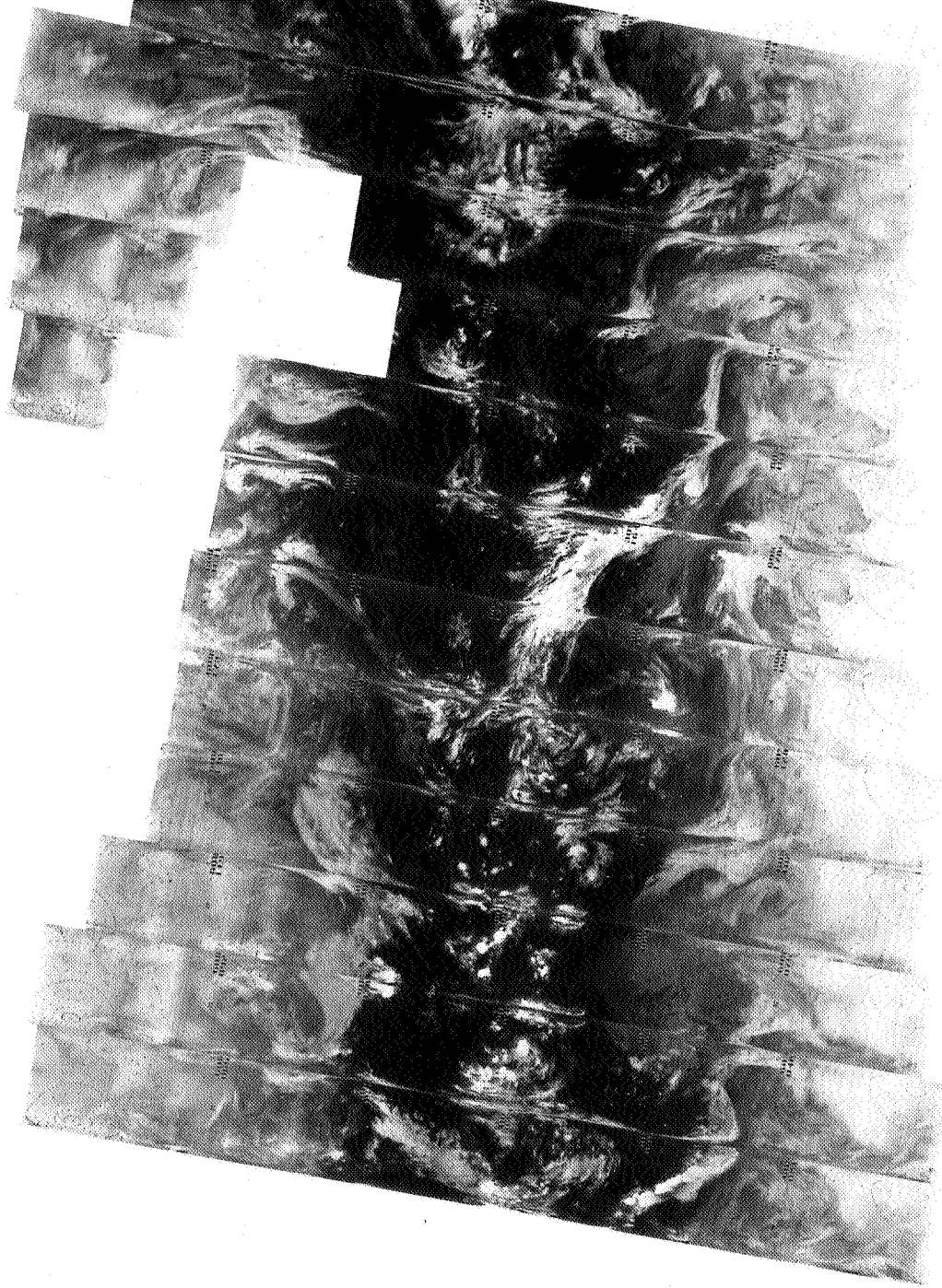
6304 6303 6302 6301 6300 6299 6298 6297 6296 6295 6294 6293 6292

25 MARCH 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



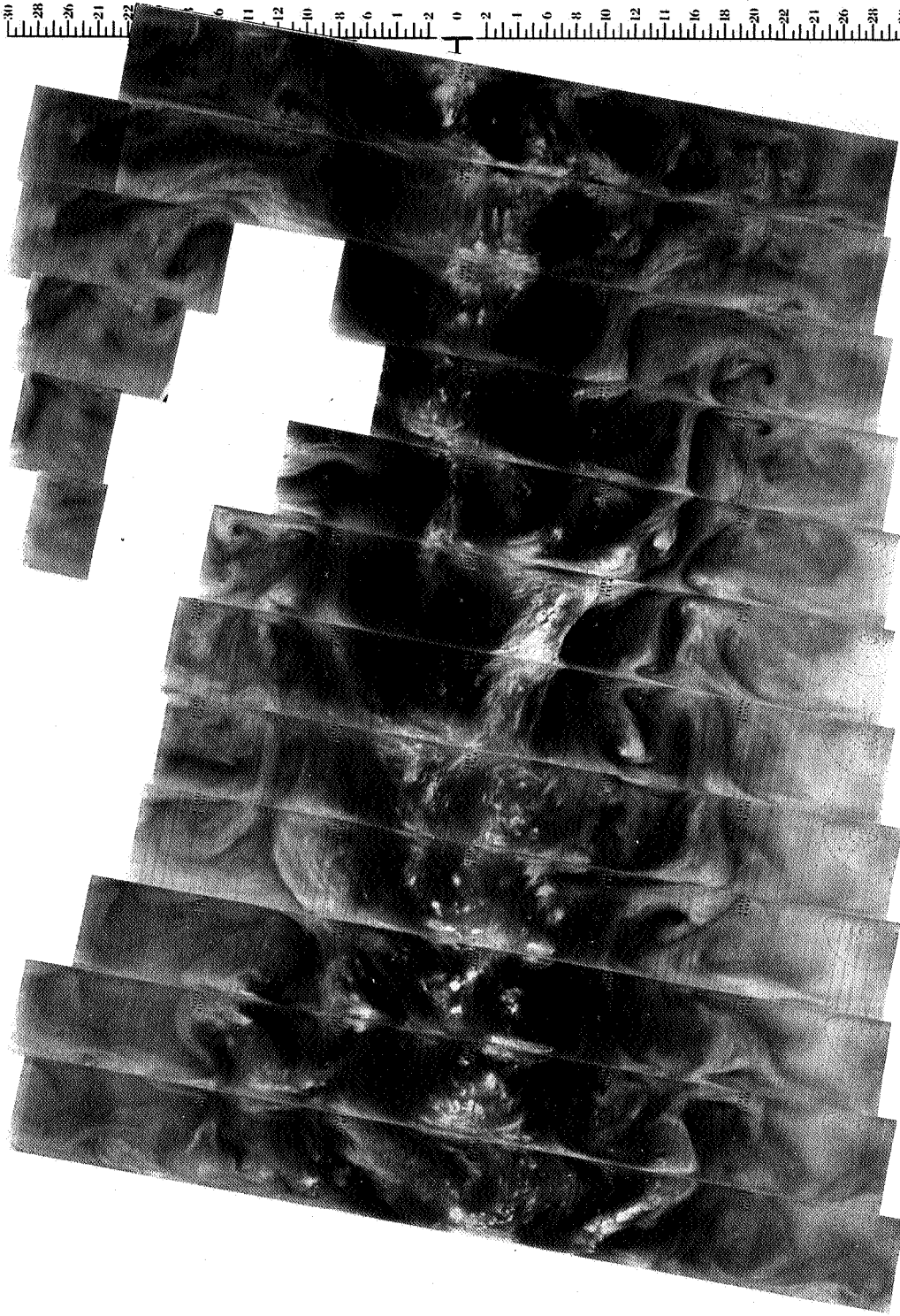
6318 6317 6316 6315 6314 6313 6312 6311 6310 6309 6308 6307 6306 6305

26 MARCH 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



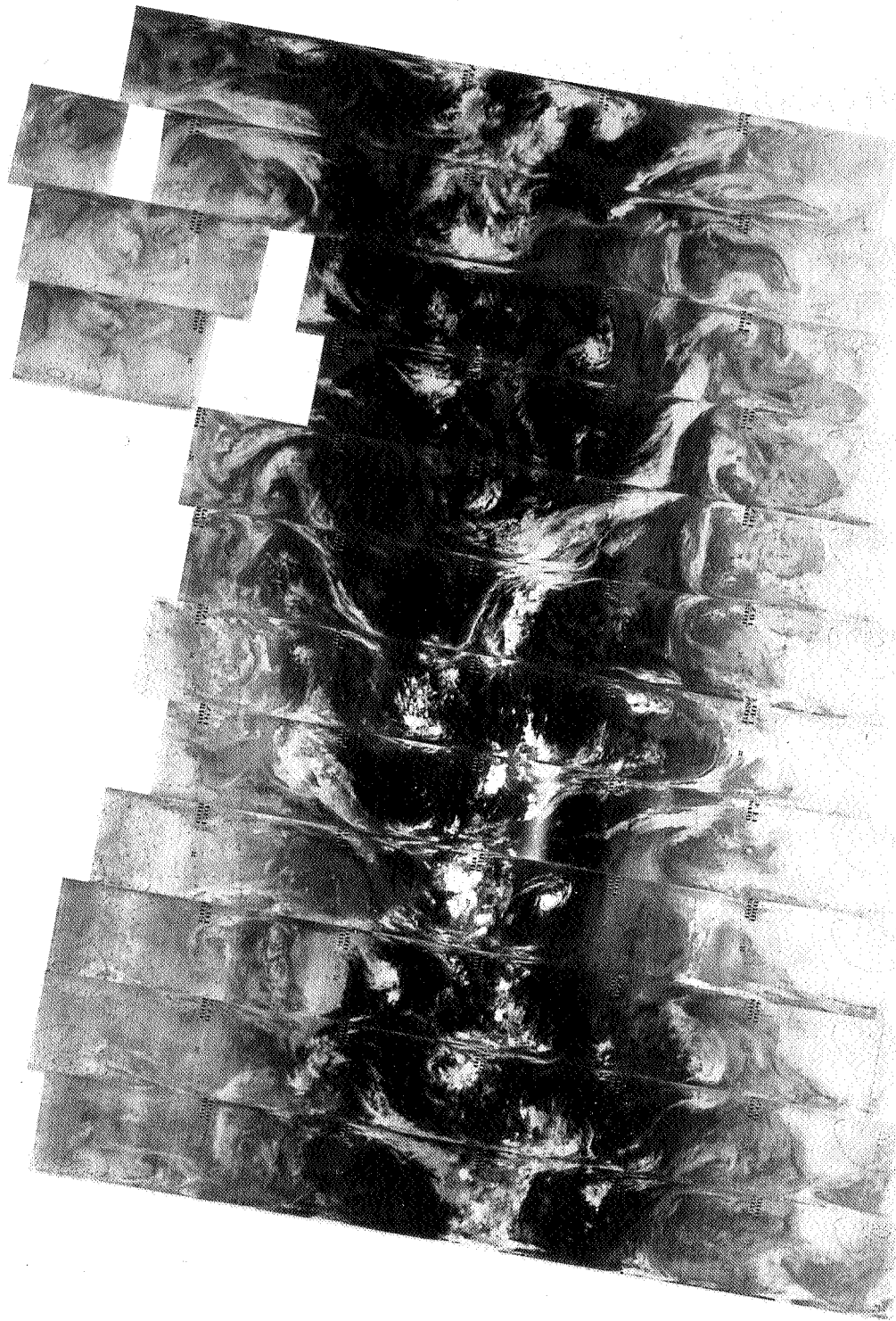
6318 6317 6316 6315 6314 6313 6312 6311 6310 6309 6308 6307 6306 6305

26 MARCH 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



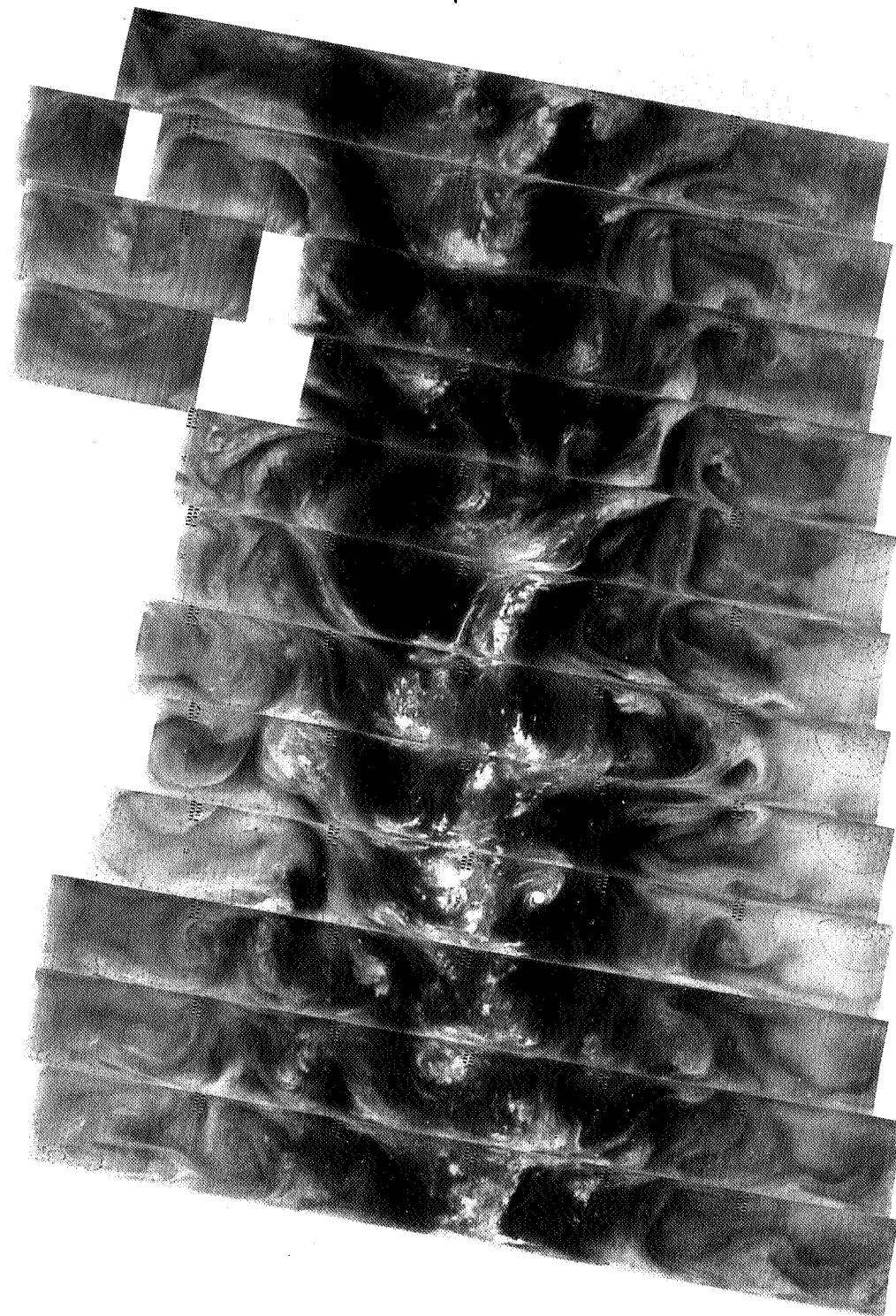
6331 6330 6329 6328 6327 6326 6325 6324 6323 6322 6321 6320 6319

27 MARCH 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

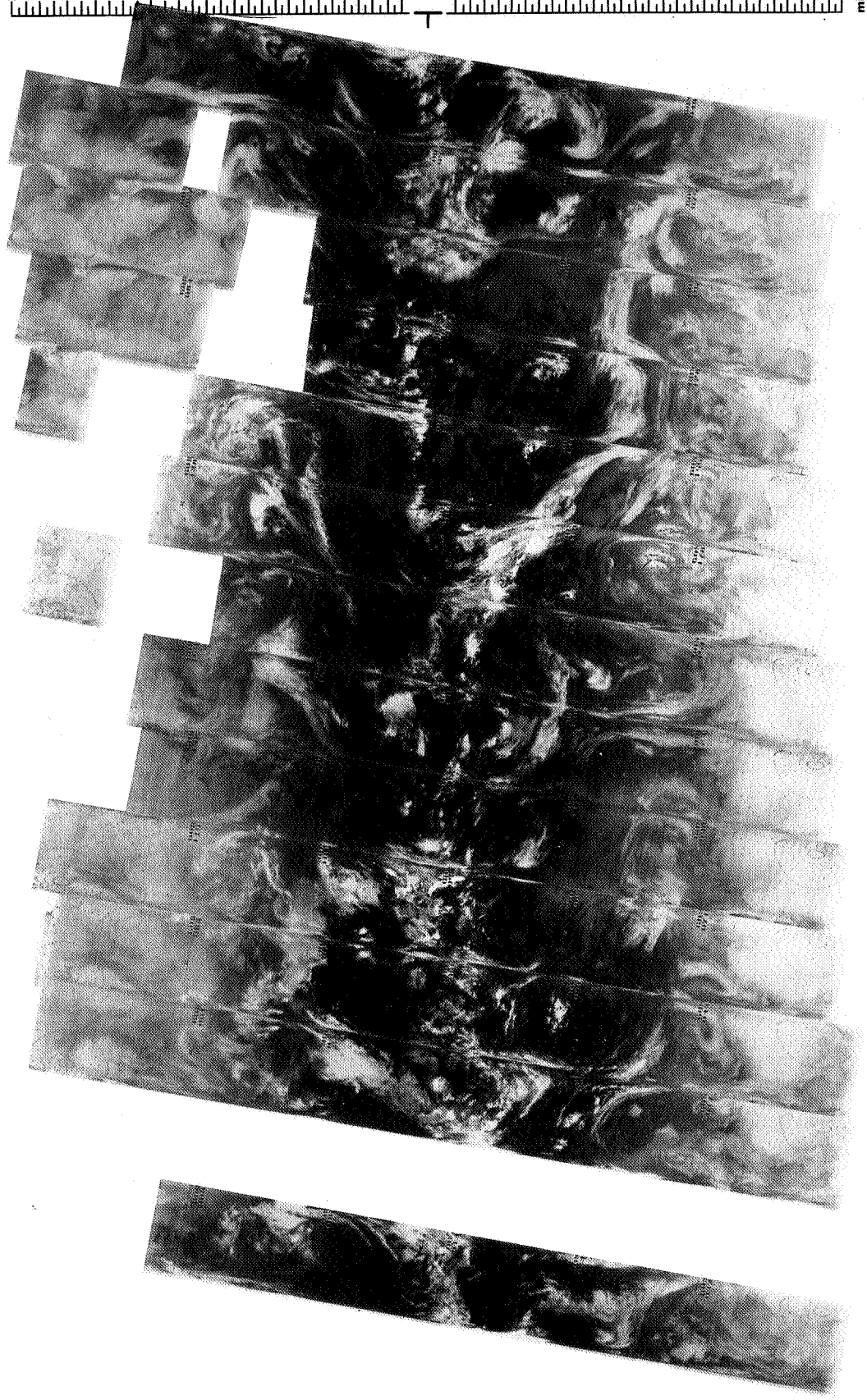


27 MARCH 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



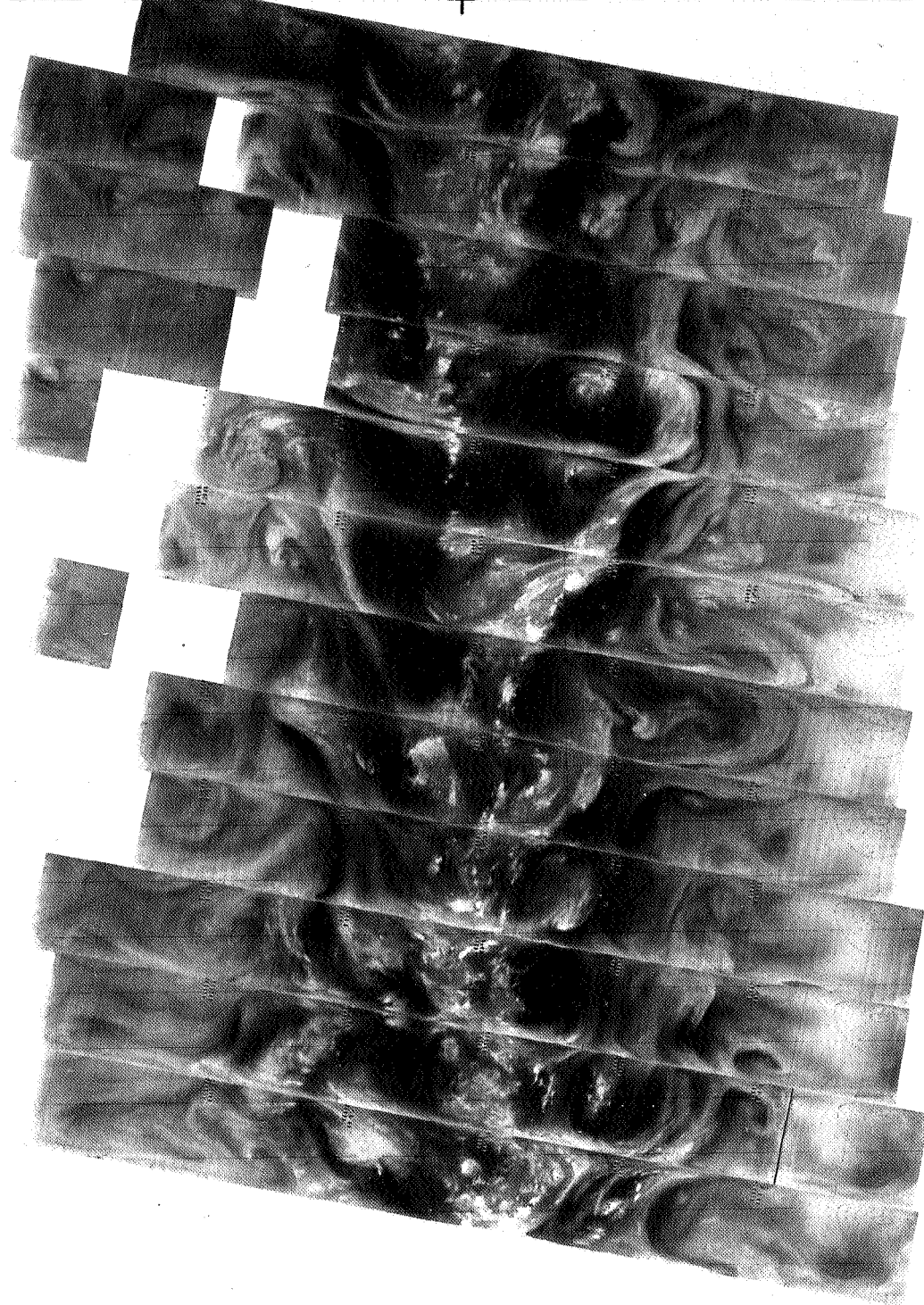
6345 6344 6343 6342 6341 6340 6339 6338 6337 6336 6335 6334 6333 6332

28 MARCH 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



6345 6344 6343 6342 6341 6340 6339 6338 6337 6336 6335 6334 6333 6332

28 MARCH 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



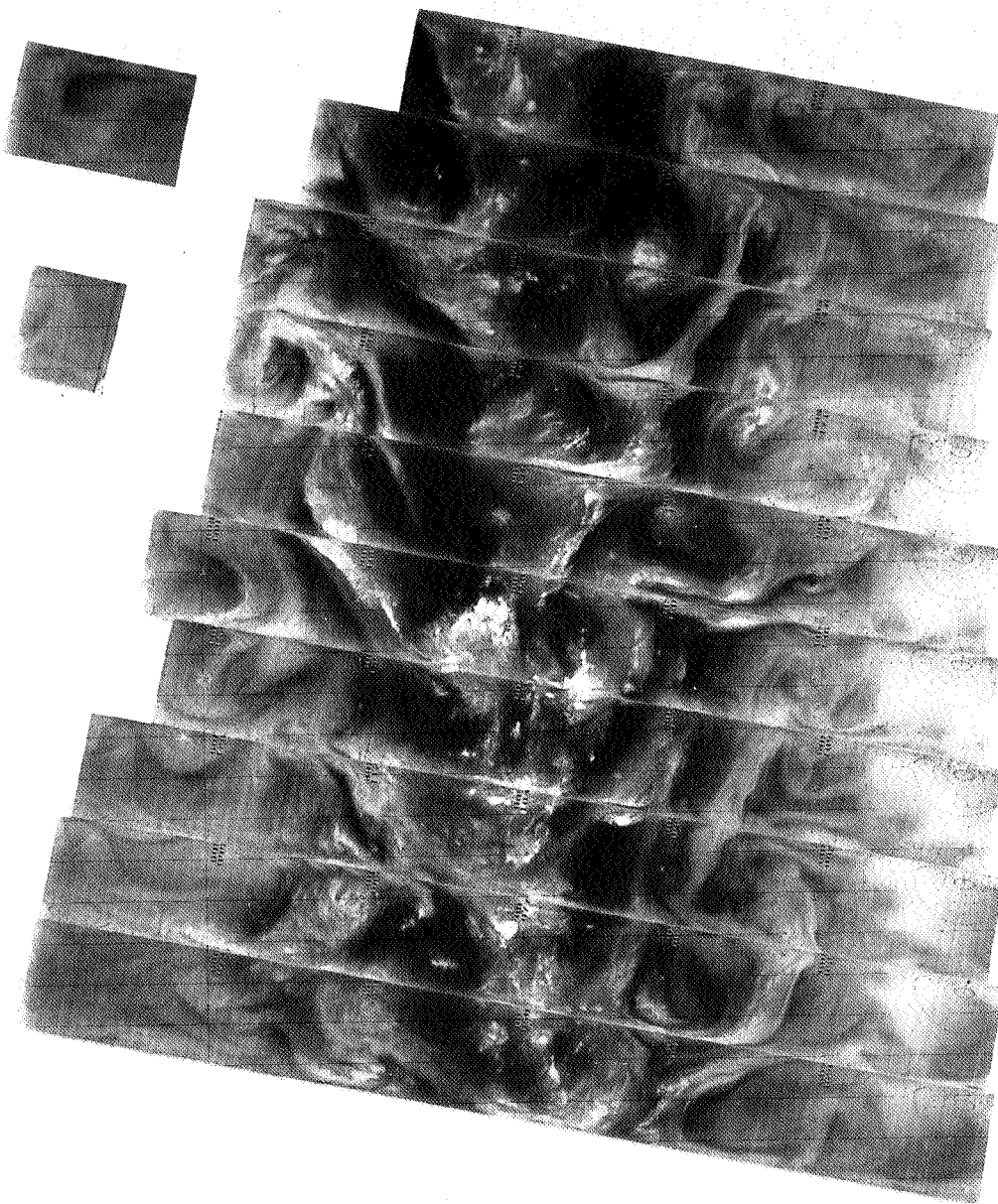
6358 6357 6356 6355 6354 6353 6352 6351 6350 6349 6348 6347 6346

29 MARCH 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



6358 6357 6356 6355 6354 6353 6352 6351 6350 6349 6348 6347 6346

29 MARCH 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



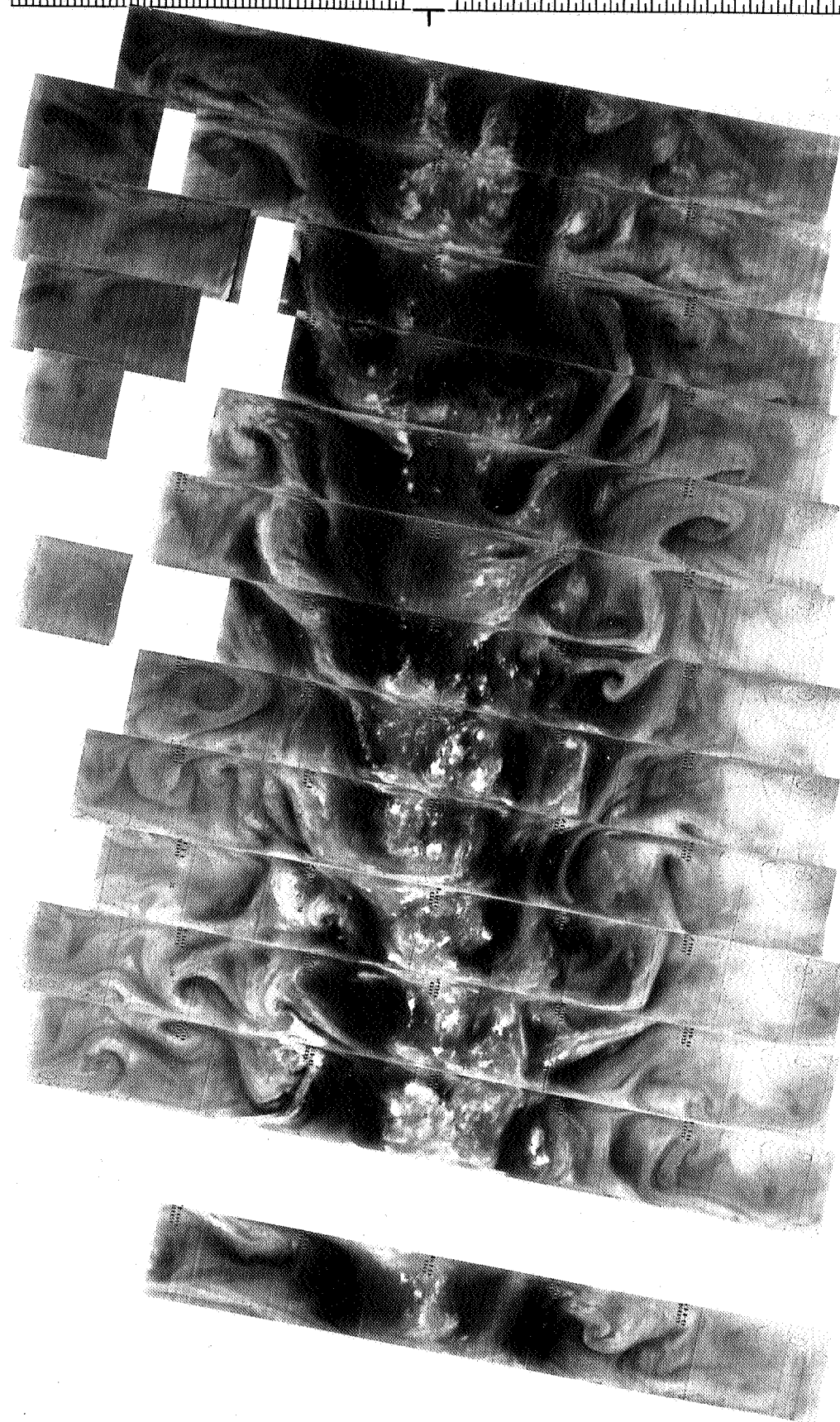
6372 6371 6370 6369 6368 6367 6366 6365 6364 6363 6362 6361 6360 6359

30 MARCH 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



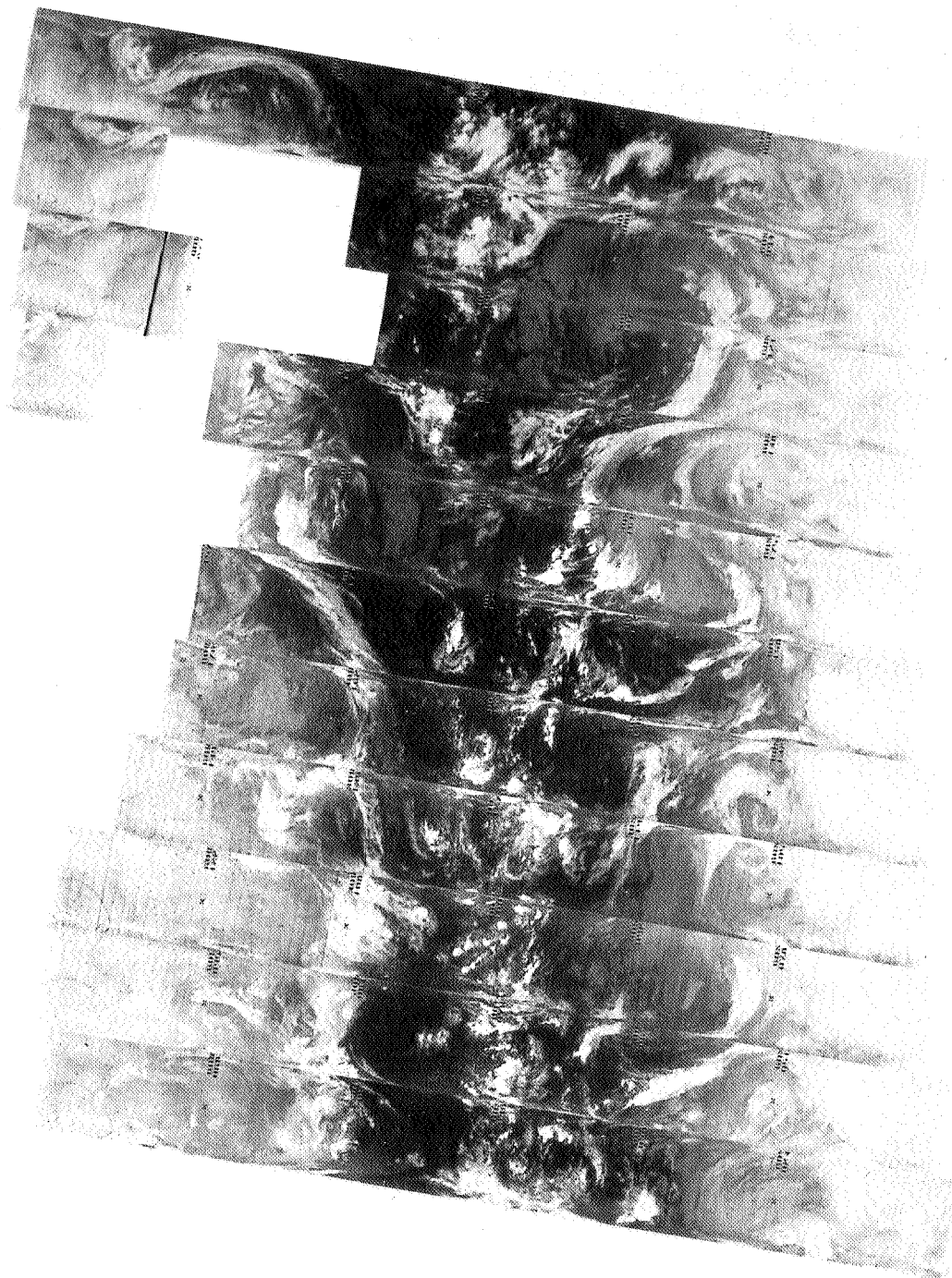
6372 6371 6370 6369 6368 6367 6366 6365 6364 6363 6362 6361 6360 6359

30 MARCH 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



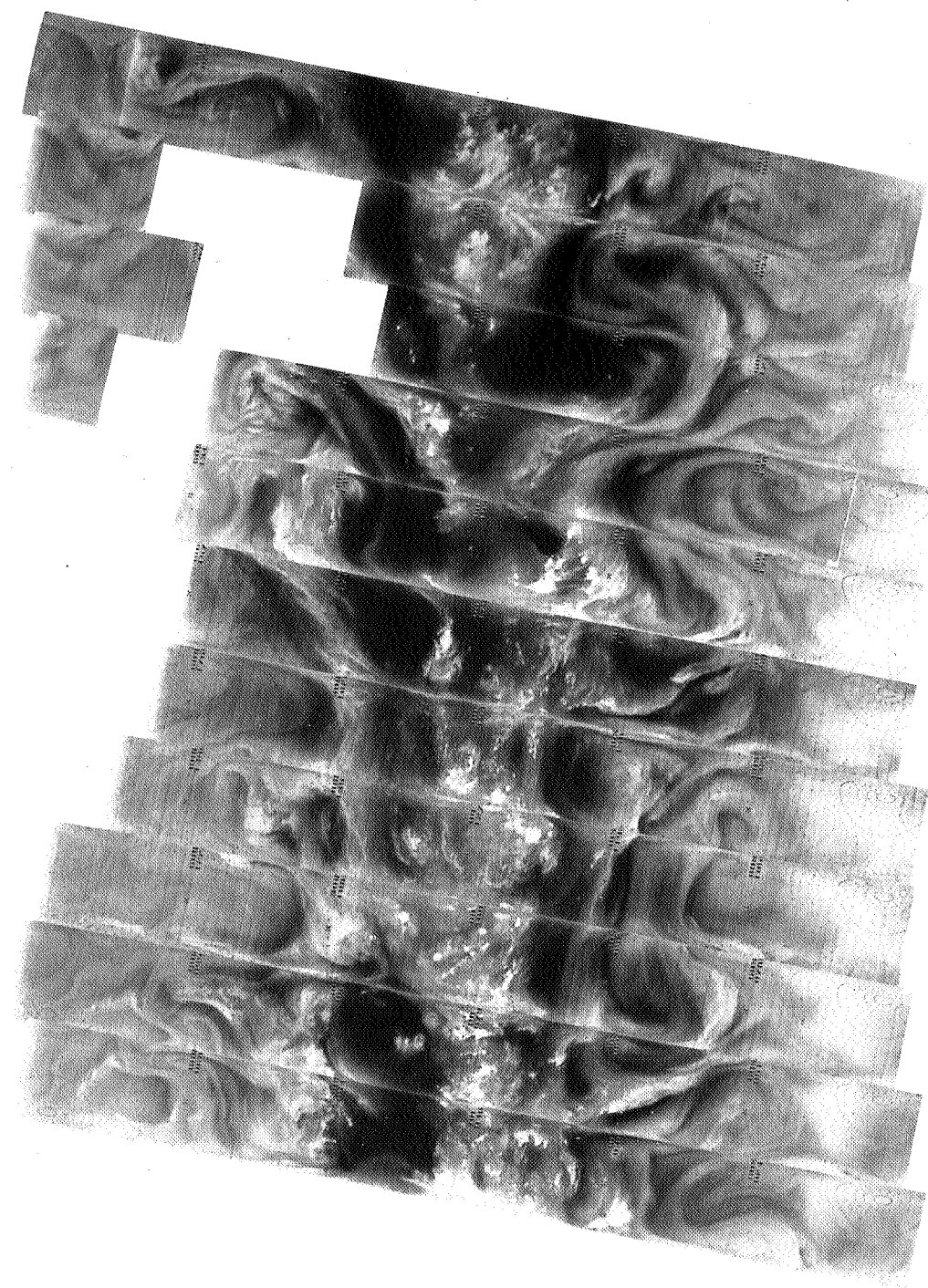
6385 6384 6383 6382 6381 6380 6379 6378 6377 6376 6375 6374 6373

31 MARCH 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



6385 6384 6383 6382 6381 6380 6379 6378 6377 6376 6375 6374 6373

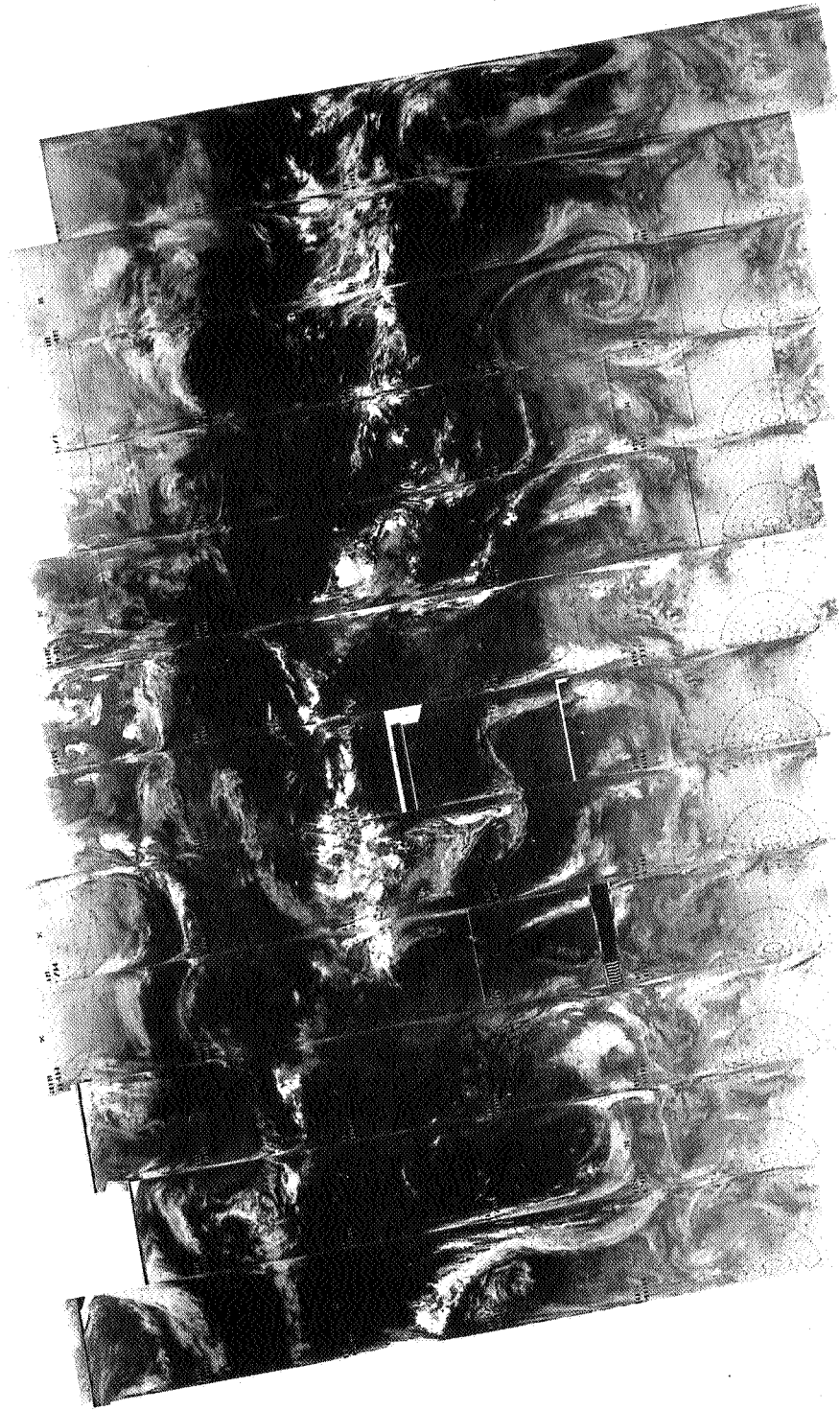
31 MARCH 1974

6.7 μm

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

SECTION 4.2
TEMPERATURE HUMIDITY INFRARED RADIOMETER
DAYTIME MONTAGES

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



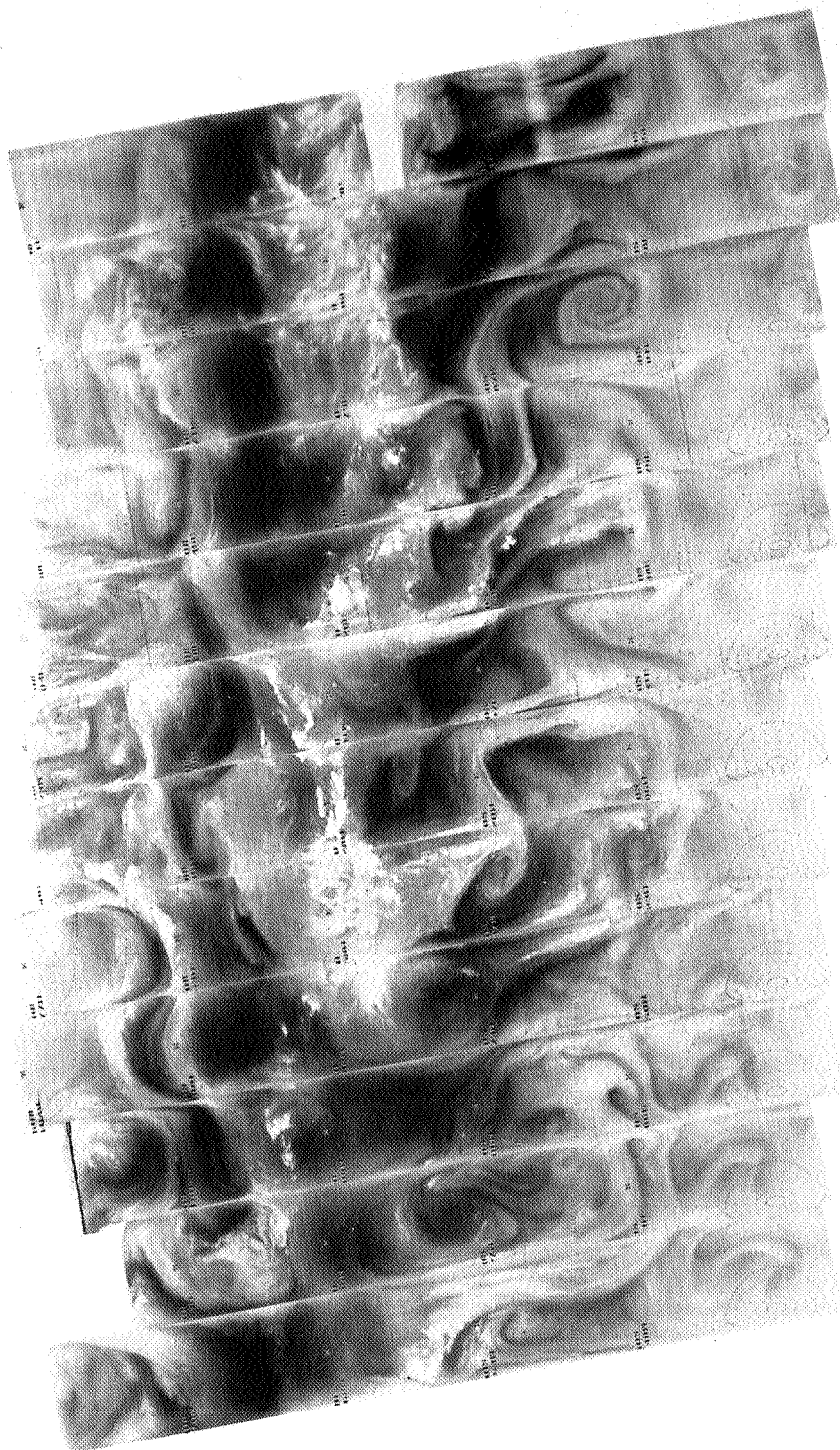
5606 5605 5604 5603 5602 5601 5600 5599 5598 5597 5596 5595 5594

1 FEBRUARY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



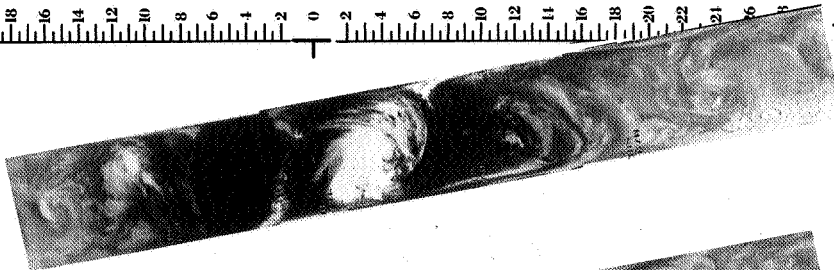
5606 5605 5604 5603 5602 5601 5600 5599 5598 5597 5596 5595 5594

1 FEBRUARY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

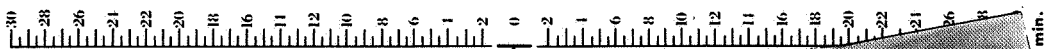


30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

5620 5619 5618 5617 5616 5615 5614 5613 5612 5611 5610 5609 5608 5607

2 FEBRUARY 1974

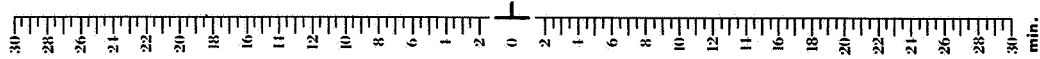
11.5 μ m



5620 5619 5618 5617 5616 5615 5614 5613 5612 5611 5610 5609 5608 5607

2 FEBRUARY 1974

6.7 μ m



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



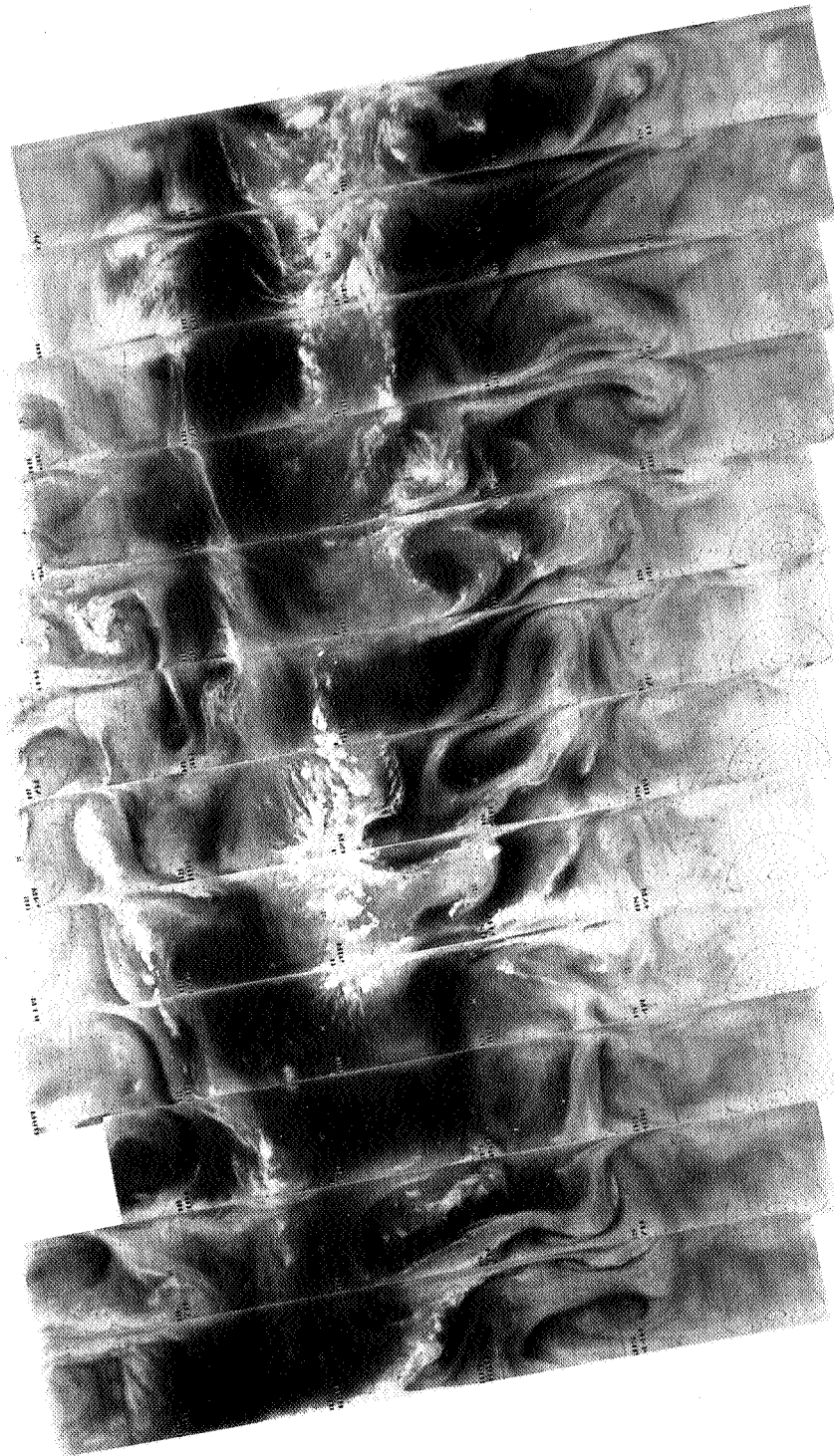
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

5633 5632 5631 5630 5629 5628 5627 5626 5625 5624 5623 5622 5621

3 FEBRUARY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



5633 5632 5631 5630 5629 5628 5627 5626 5625 5624 5623 5622 5621

3 FEBRUARY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

5647 5646 5645 5644 5643 5642 5641 5640 5639 5638 5637 5636 5635 5634

4 FEBRUARY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



5647 5648 5649 5650 5651 5652 5653 5654 5655 5656 5657

4 FEBRUARY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



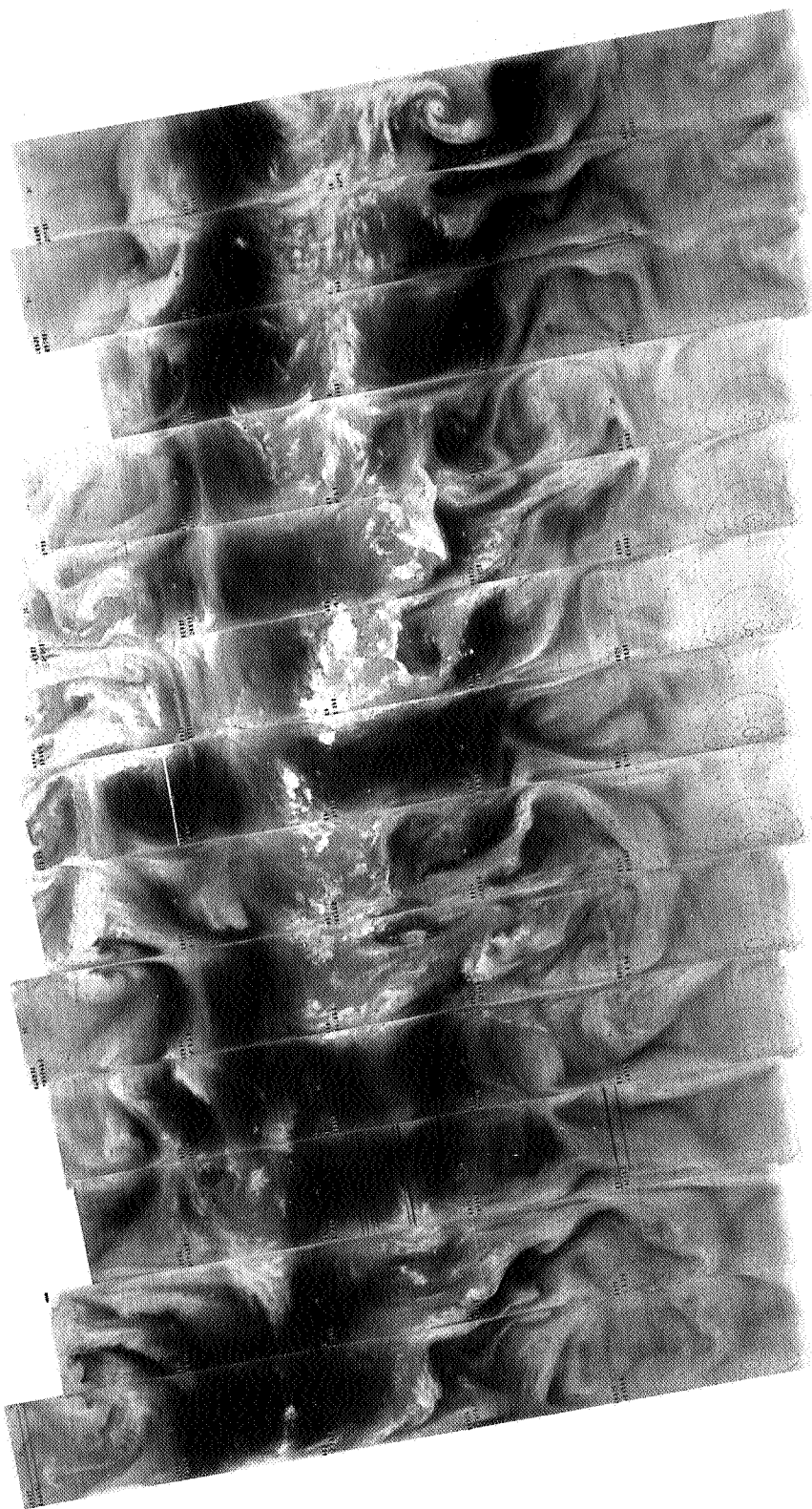
5660 5659 5658 5657 5656 5655 5654 5653 5652 5651 5650 5649 5648

5 FEBRUARY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



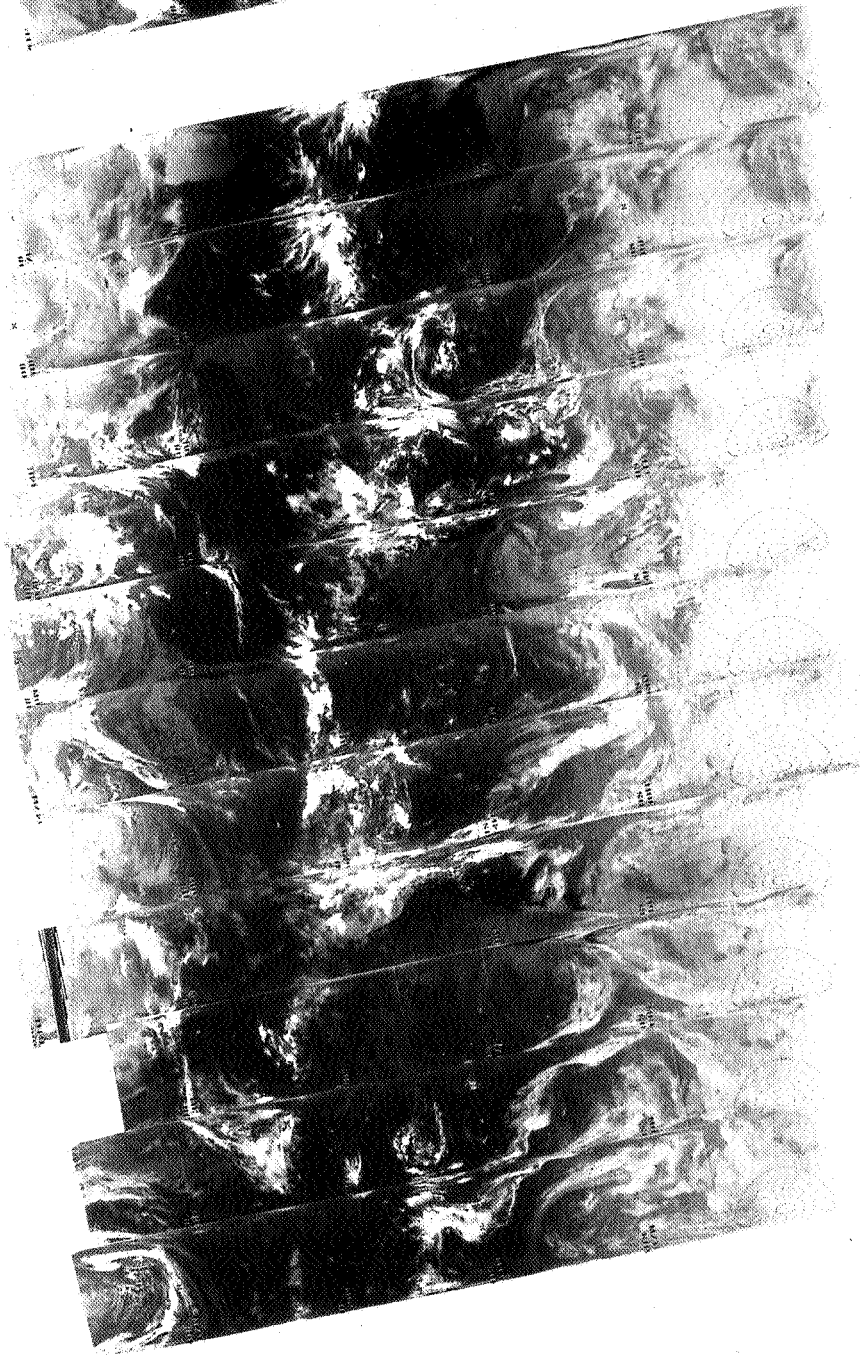
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

5660 5659 5658 5657 5656 5655 5654 5653 5652 5651 5650 5649 5648

5 FEBRUARY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



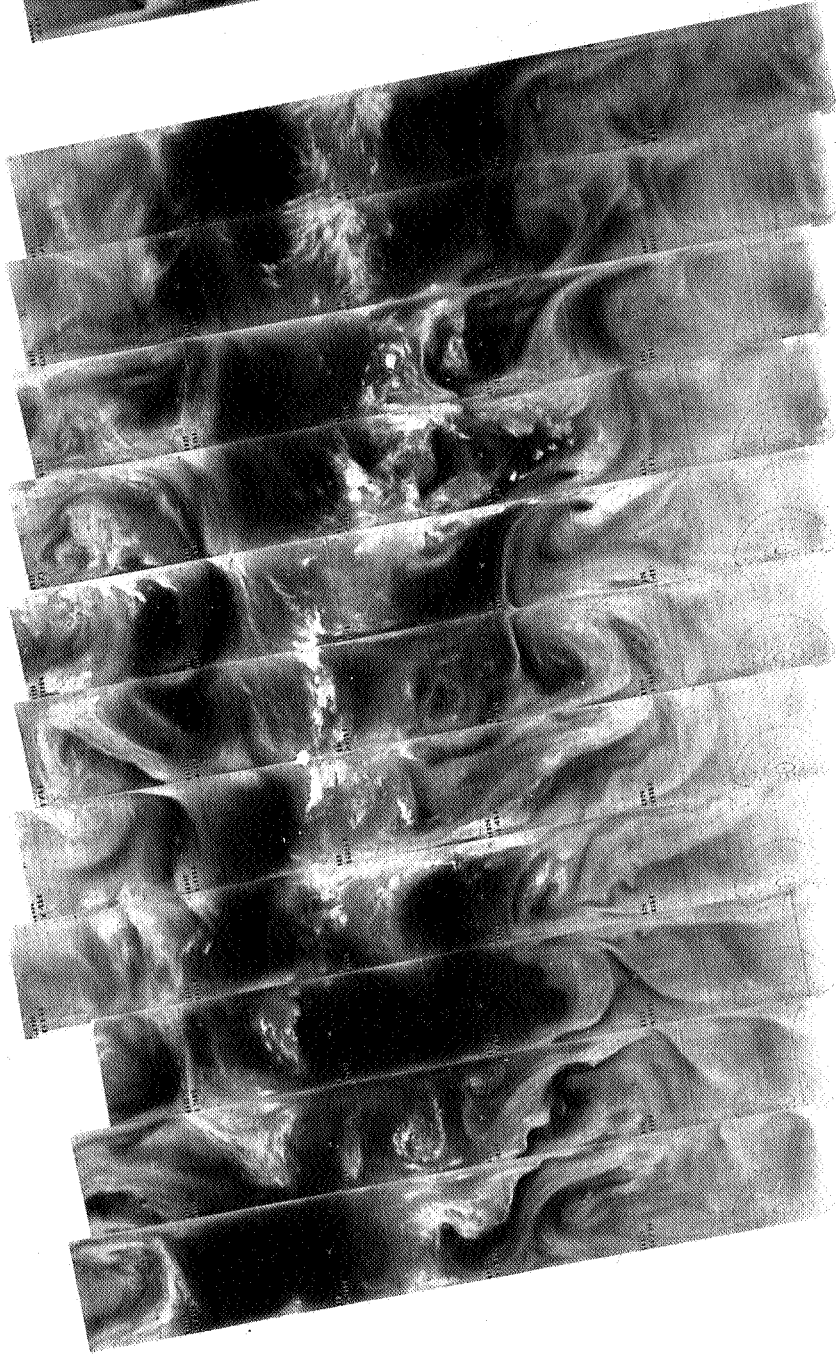
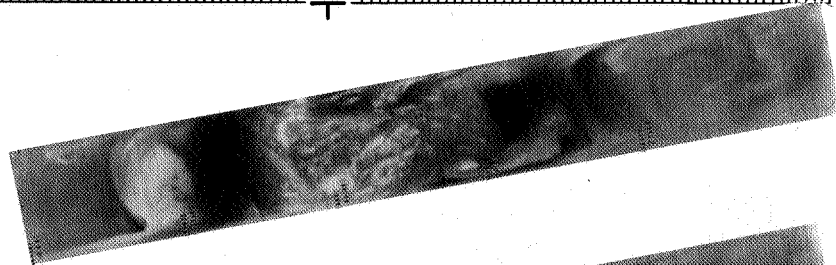
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

5674 5673 5672 5671 5670 5669 5668 5667 5666 5665 5664 5663 5662 5661

6 FEBRUARY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

5674 5673 5672 5671 5670 5669 5668 5667 5666 5665 5664 5663 5662 5661

6 FEBRUARY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



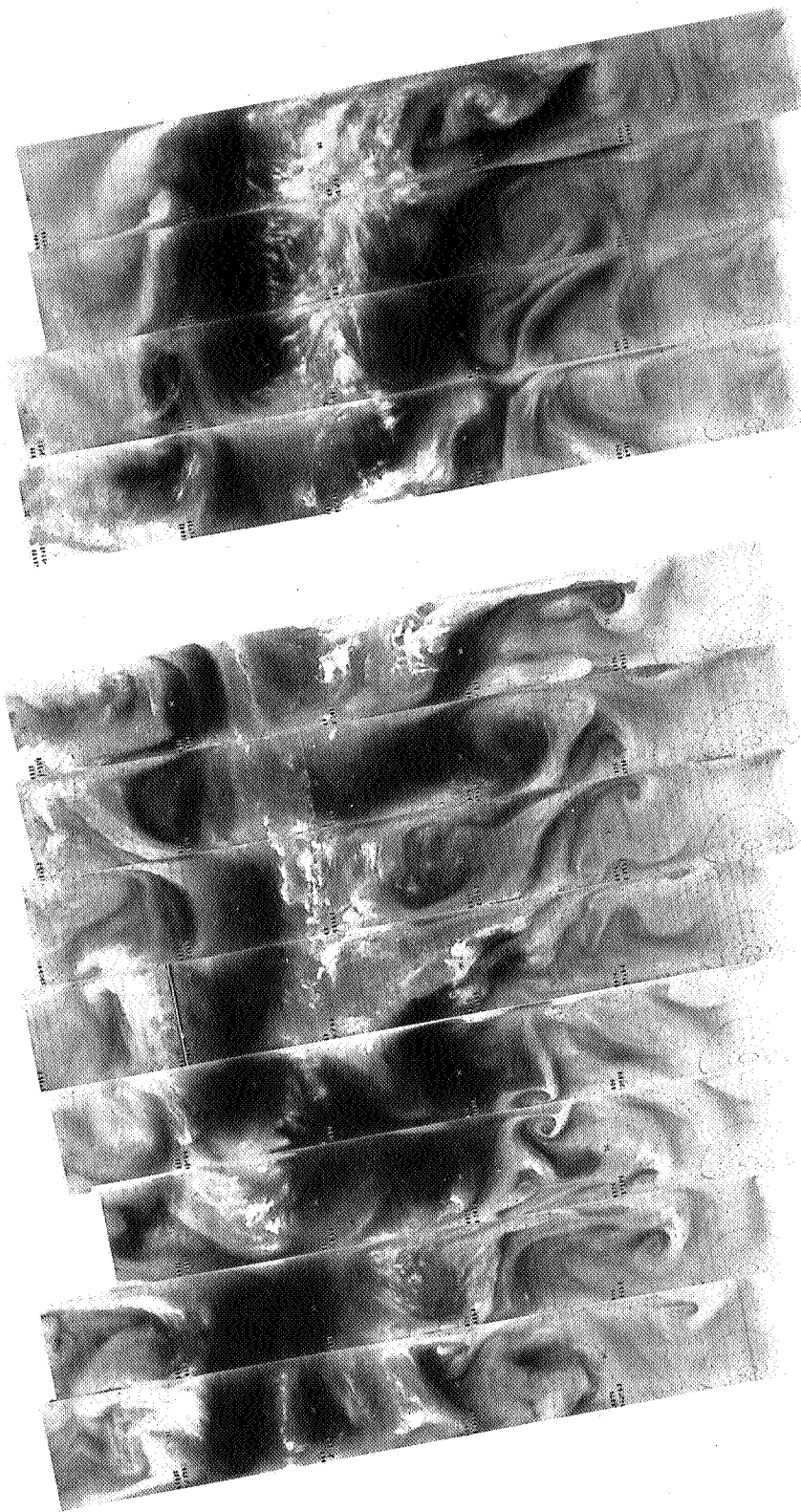
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

5687 5686 5685 5684 5683 5682 5681 5680 6579 5678 5677 5676 5675

7 FEBRUARY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



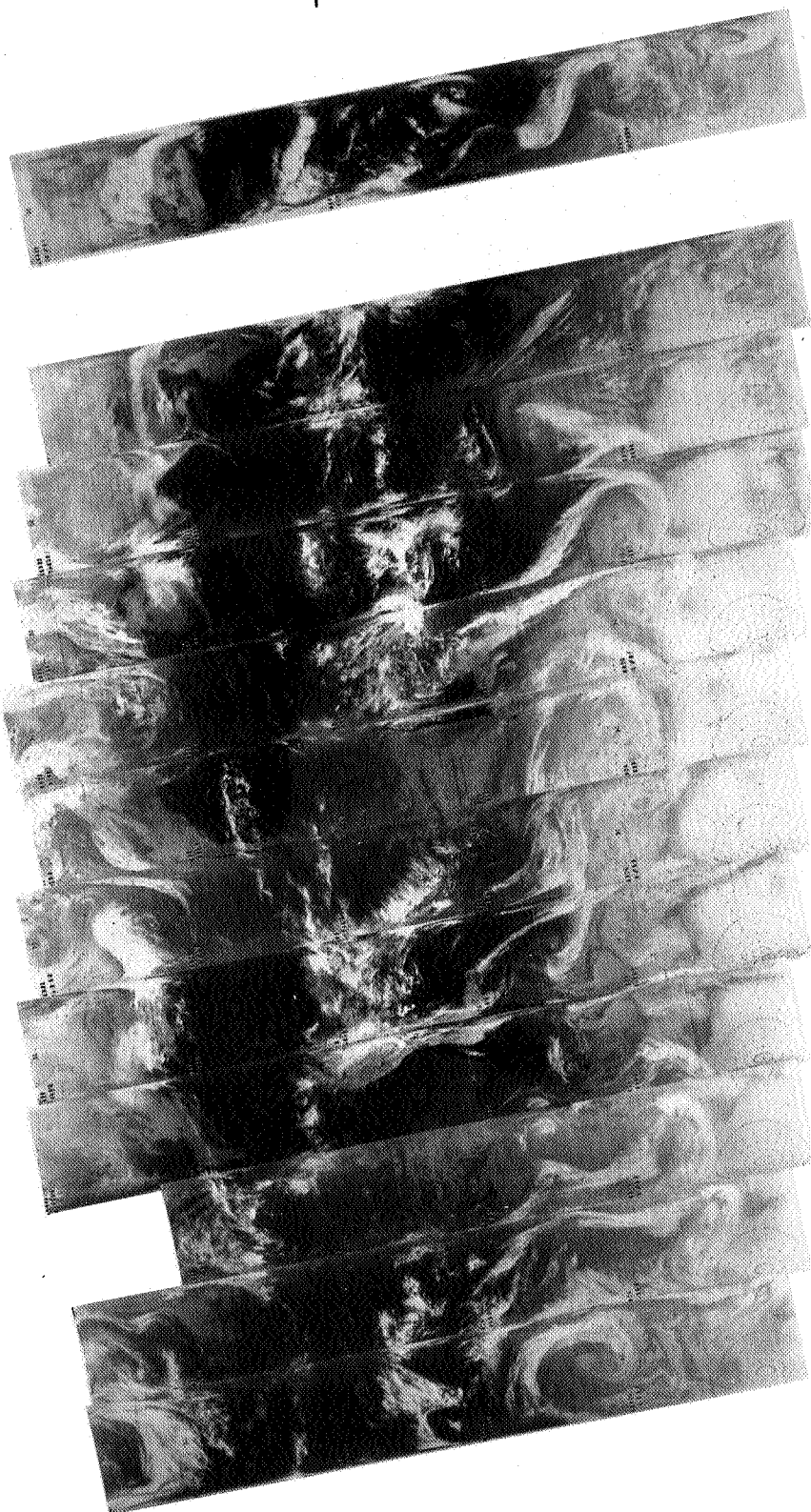
7 FEBRUARY 1974

6.7 μ m

5687 5686 5685 5684 5683 5682 5681 5680 5679 5678 5677 5676 5675

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



5700 5699 5698 5697 5696 5695 5694 5693 5692 5691 5690 5689 5688

8 FEBRUARY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



5700 5699 5698 5697 5696 5695 5694 5693 5692 5691 5690 5689 5688

8 FEBRUARY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

5714 5713 5712 5711 5710 5709 5708 5707 5706 5705 5704 5703 5702 5701

9 FEBRUARY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



9 FEBRUARY 1974

6.7 μ m

5714 5713 5712 5711 5710 5709 5708 5707 5706 5705 5704 5703 5702 5701

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

5727 5726 5725 5724 5723 5722 5721 5720 5719 5718 5717 5716 5715

10 FEBRUARY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



5727 5726 5725 5724 5723 5722 5721 5720 5719 5718 5717 5716 5715

10 FEBRUARY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

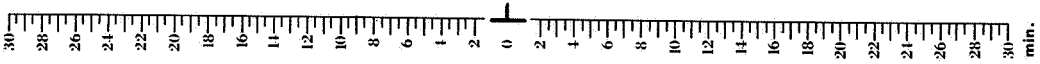
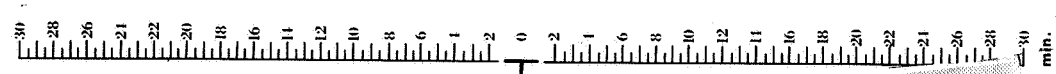


5741 5740 5739 5738 5737 5736 5735 5734 5733 5732 5731 5730 5729 5728

11 FEBRUARY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



5741 5740 5739 5738 5737 5736 5735 5734 5733 5732 5731 5730 5729 5728

11 FEBRUARY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

5754 5753 5752 5751 5750 5749 5748 5747 5746 5745 5744 5743 5742

12 FEBRUARY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



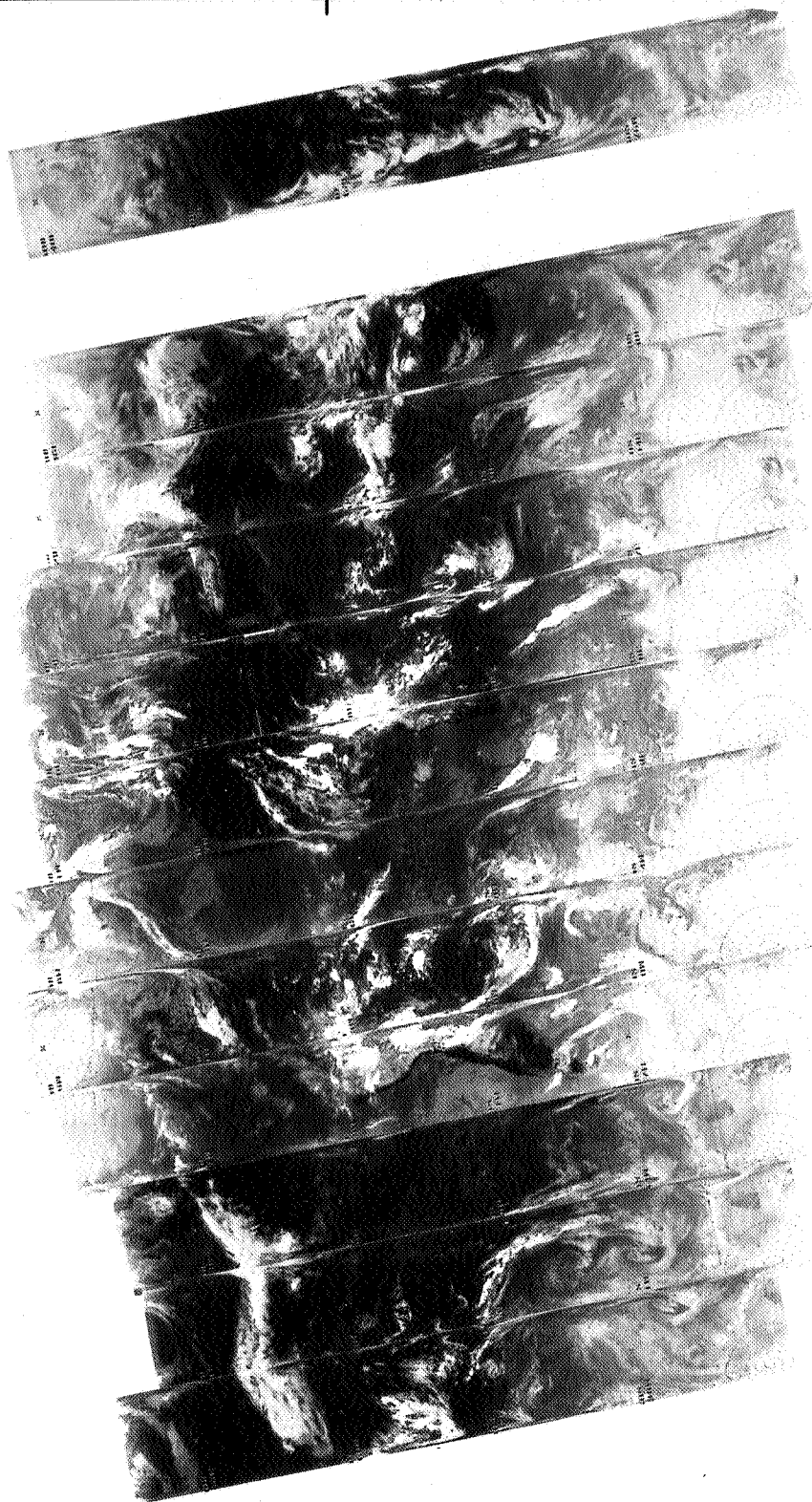
5754 5753 5752 5751 5750 5749 5748 5747 5746 5745 5744 5743 5742

12 FEBRUARY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

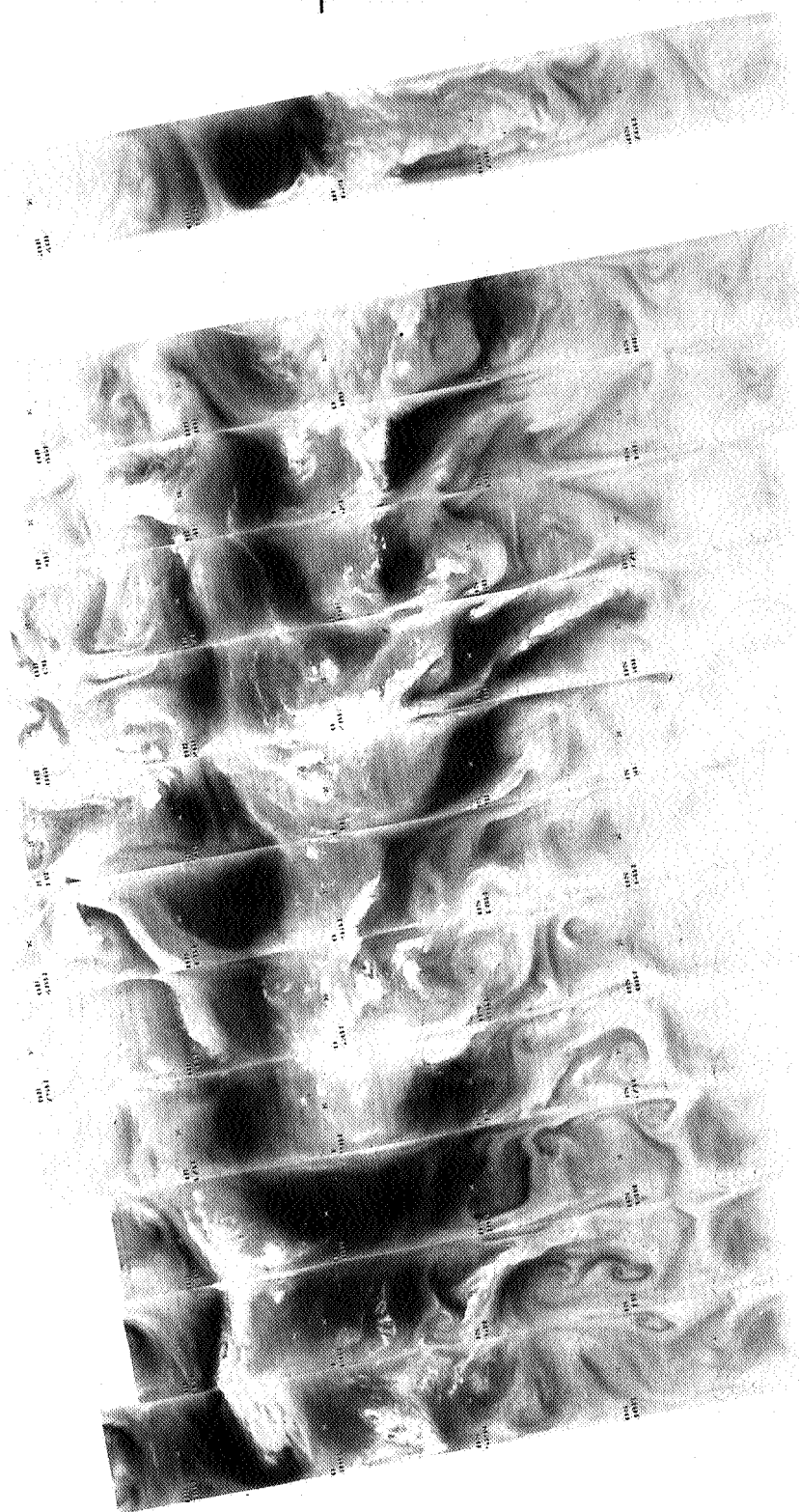
4-148

5768 5767 5766 5765 5764 5763 5762 5761 5760 5759 5758 5757 5756 5755

13 FEBRUARY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

5768 5767 5766 5765 5764 5763 5762 5761 5760 5759 5758 5757 5756 5755

13 FEBRUARY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



5781 5780 5779 5778 5777 5776 5775 5774 5773 5772 5771 5770 5769

14 FEBRUARY 1974

11.5 μ m

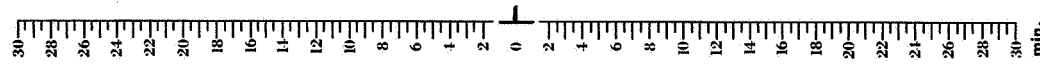
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



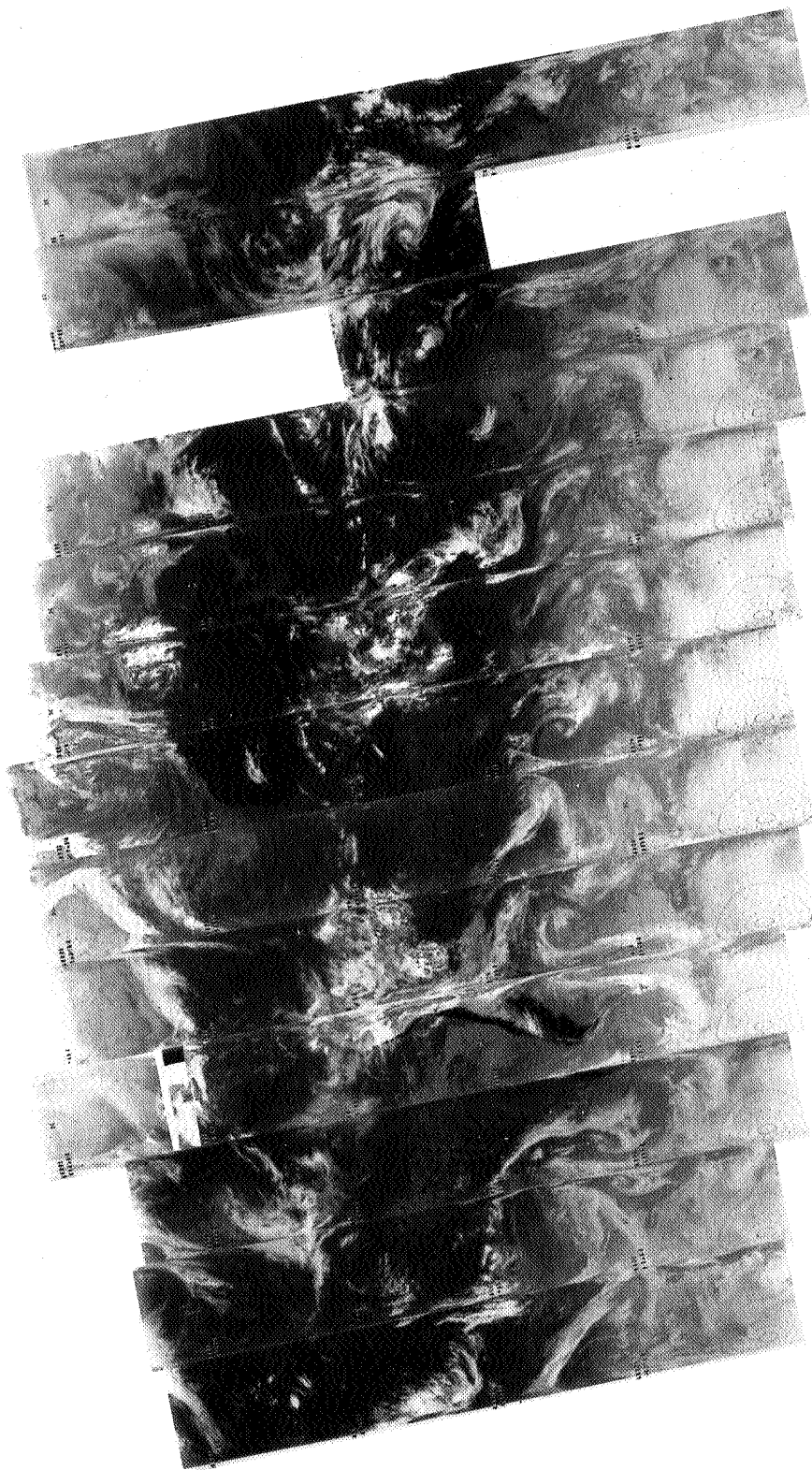
5781 5780 5779 5778 5777 5776 5775 5774 5773 5772 5771 5770 5769

14 FEBRUARY 1974

6.7 μ m



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



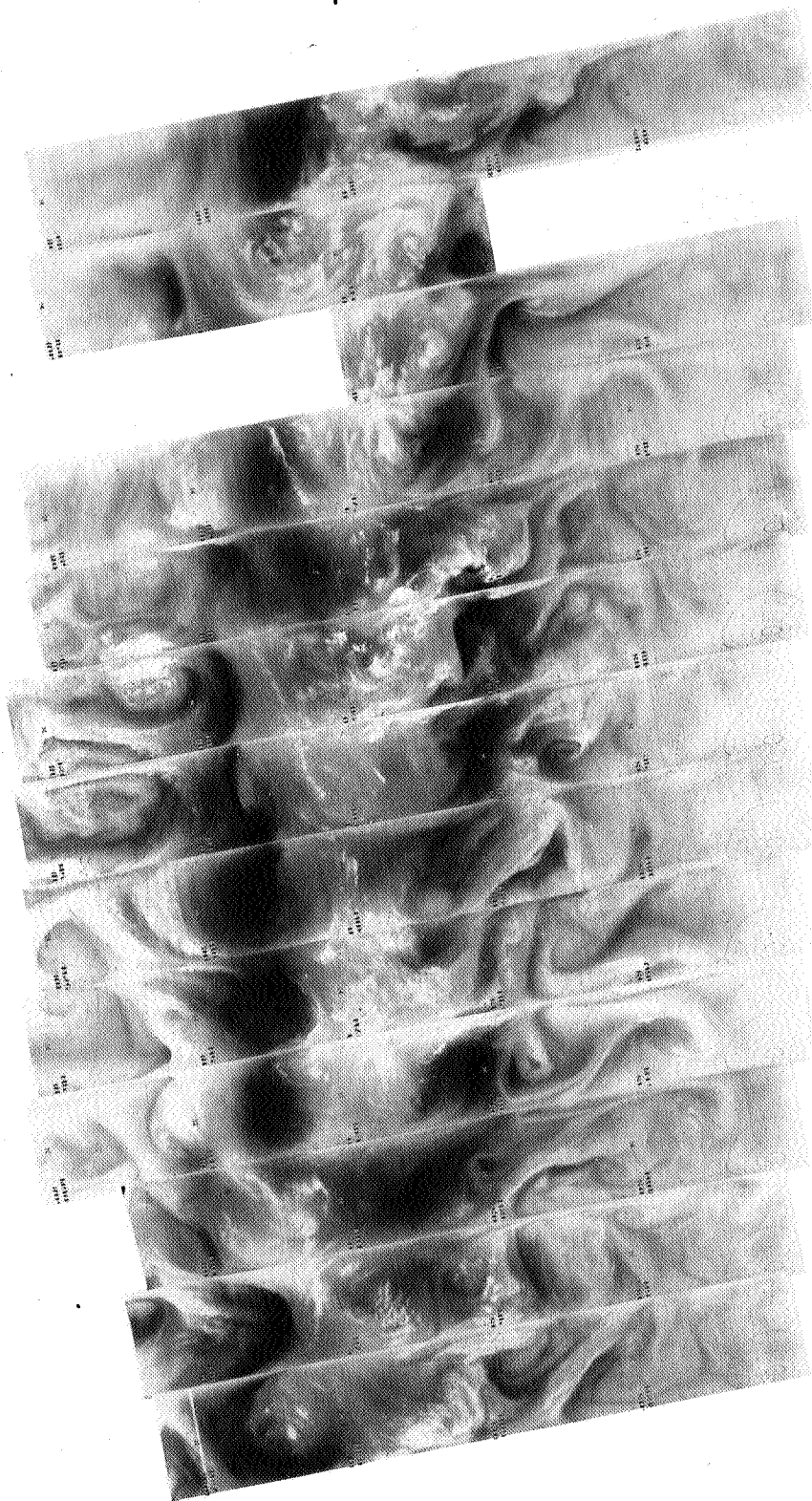
5794 5793 5792 5791 5790 5789 5788 5787 5786 5785 5784 5783 5782

15 FEBRUARY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



5794 5793 5792 5791 5790 5789 5788 5787 5786 5785 5784 5783 5782

15 FEBRUARY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

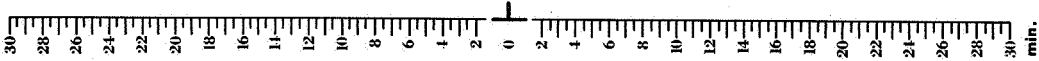
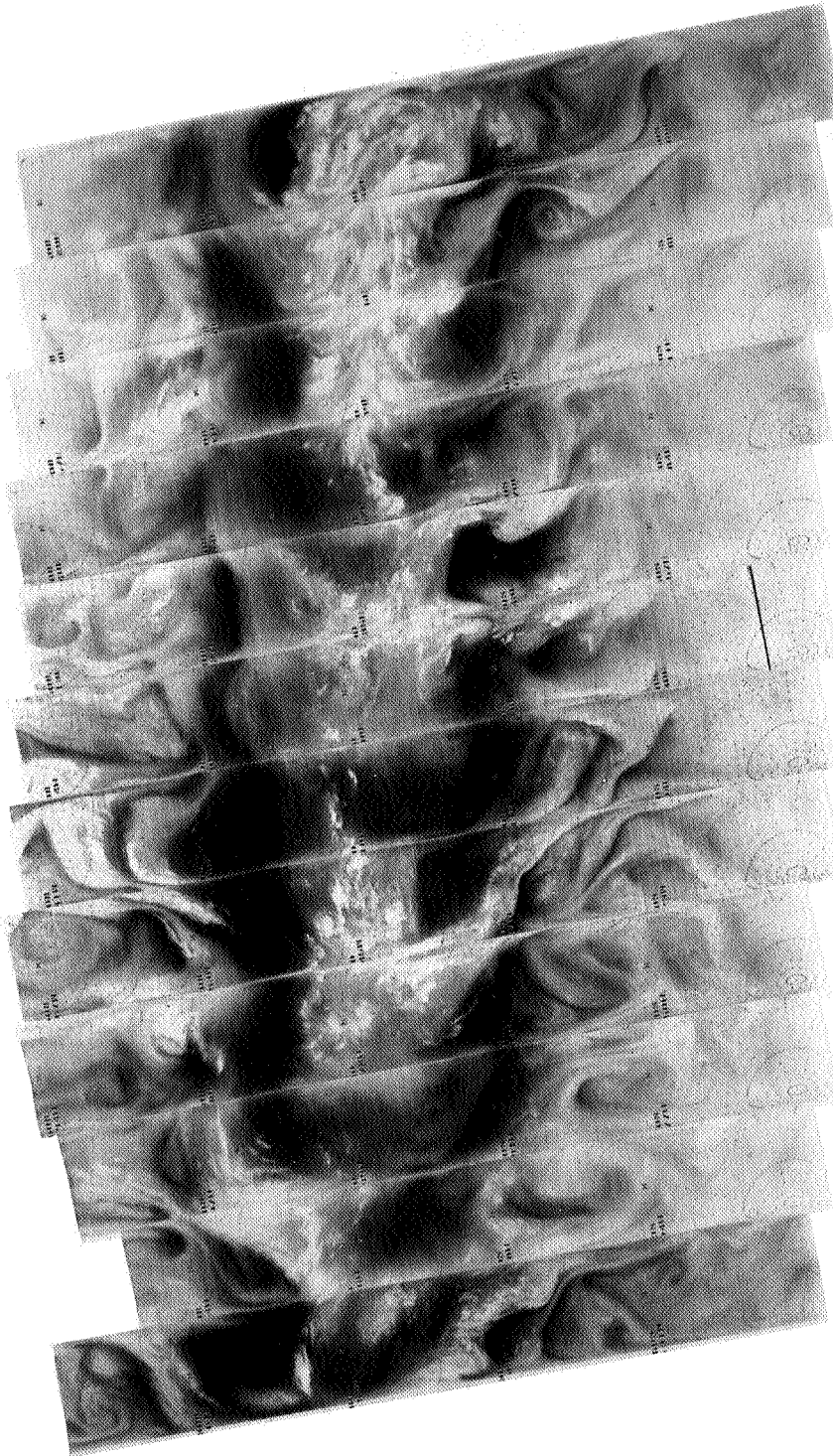
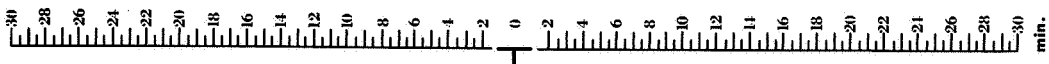


30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

5808 5807 5806 5805 5804 5803 5802 5801 5800 5799 5798 5797 5796 5795

16 FEBRUARY 1974

11.5 μm



5808 5807 5806 5805 5804 5803 5802 5801 5800 5799 5798 5797 5796 5795

16 FEBRUARY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

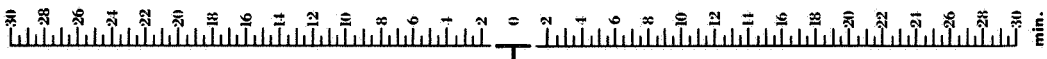


5821 5820 5819 5818 5817 5816 5815 5814 5813 5812 5811 5810 5809

17 FEBRUARY 1974

11.5 μ m

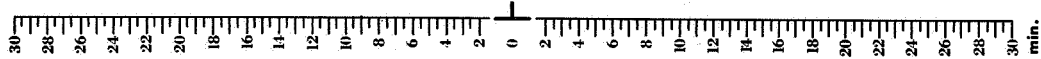
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



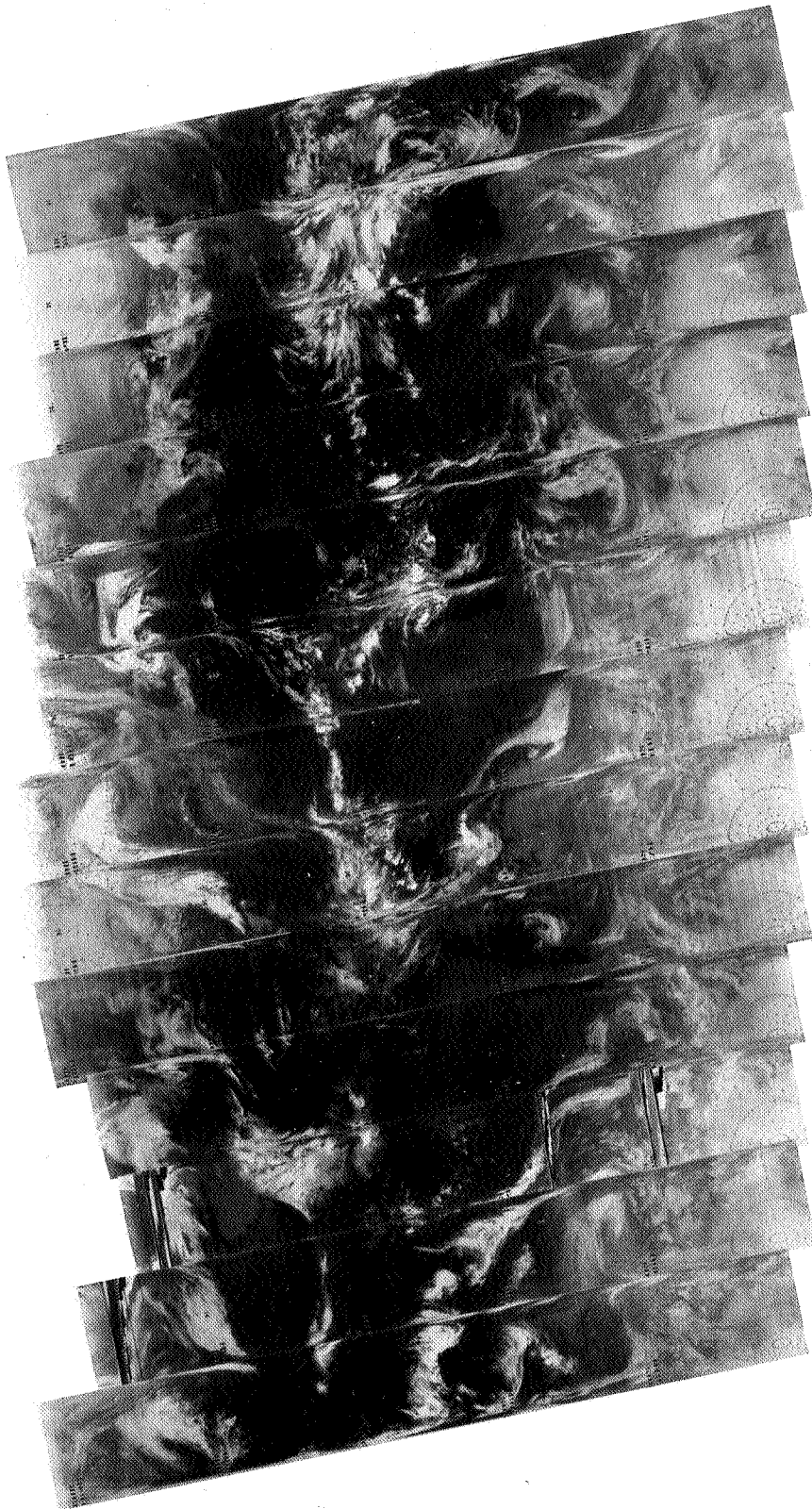
5821 5820 5819 5818 5817 5816 5815 5814 5813 5812 5811 5810 5809

17 FEBRUARY 1974

6.7 μ m



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

5835 5834 5833 5832 5831 5830 5829 5828 5827 5826 5825 5824 5823 5822

18 FEBRUARY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



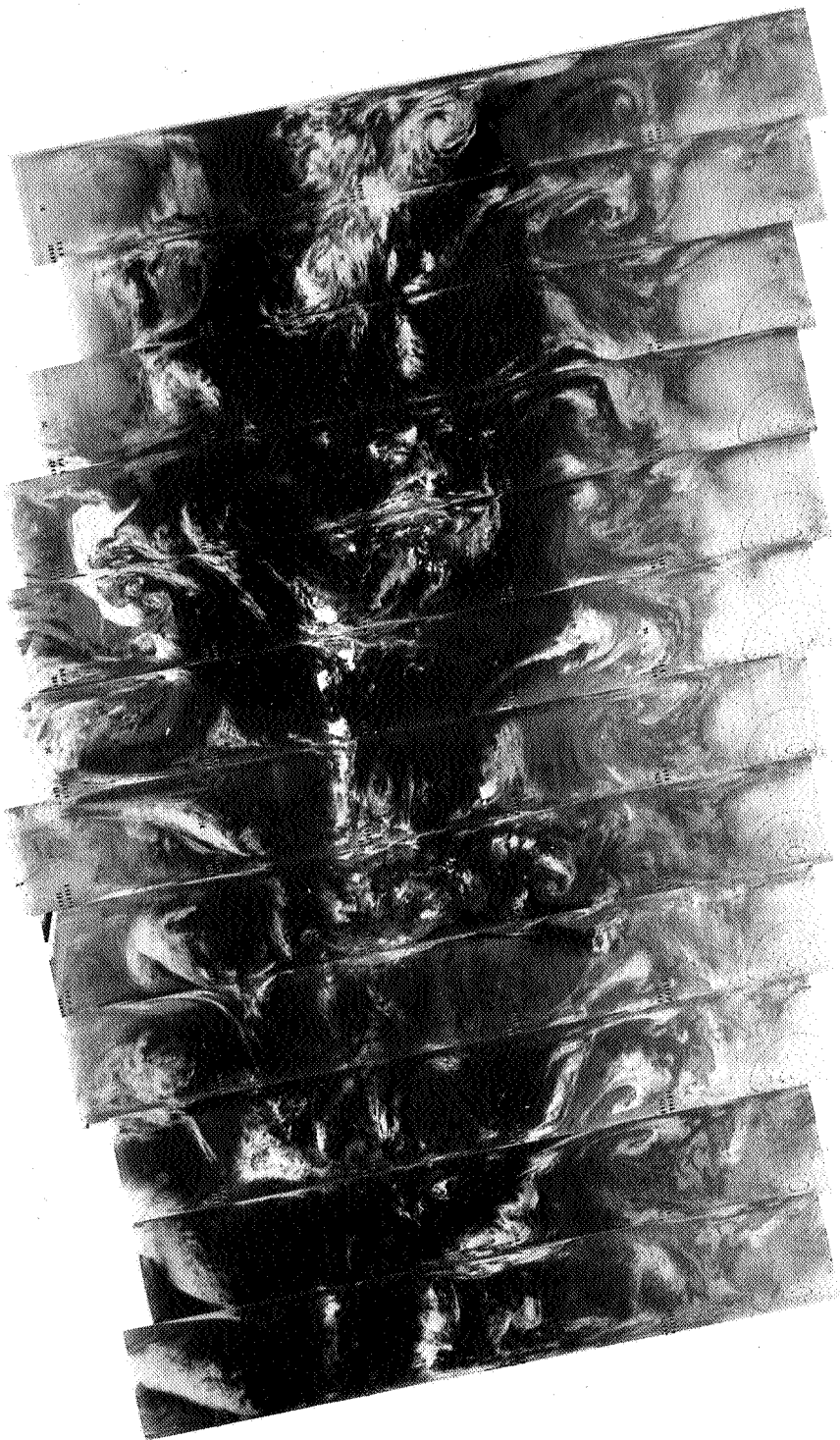
5835 5834 5833 5832 5831 5830 5829 5828 5827 5826 5825 5824 5823 5822

18 FEBRUARY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

5848 5847 5846 5845 5844 5843 5842 5841 5840 5839 5838 5837 5836

19 FEBRUARY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



5848 5847 5846 5845 5844 5843 5842 5841 5840 5839 5838 5837 5836

19 FEBRUARY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

5862 5861 5860 5859 5858 5857 5856 5855 5854 5853 5852 5851 5850 5849

20 FEBRUARY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



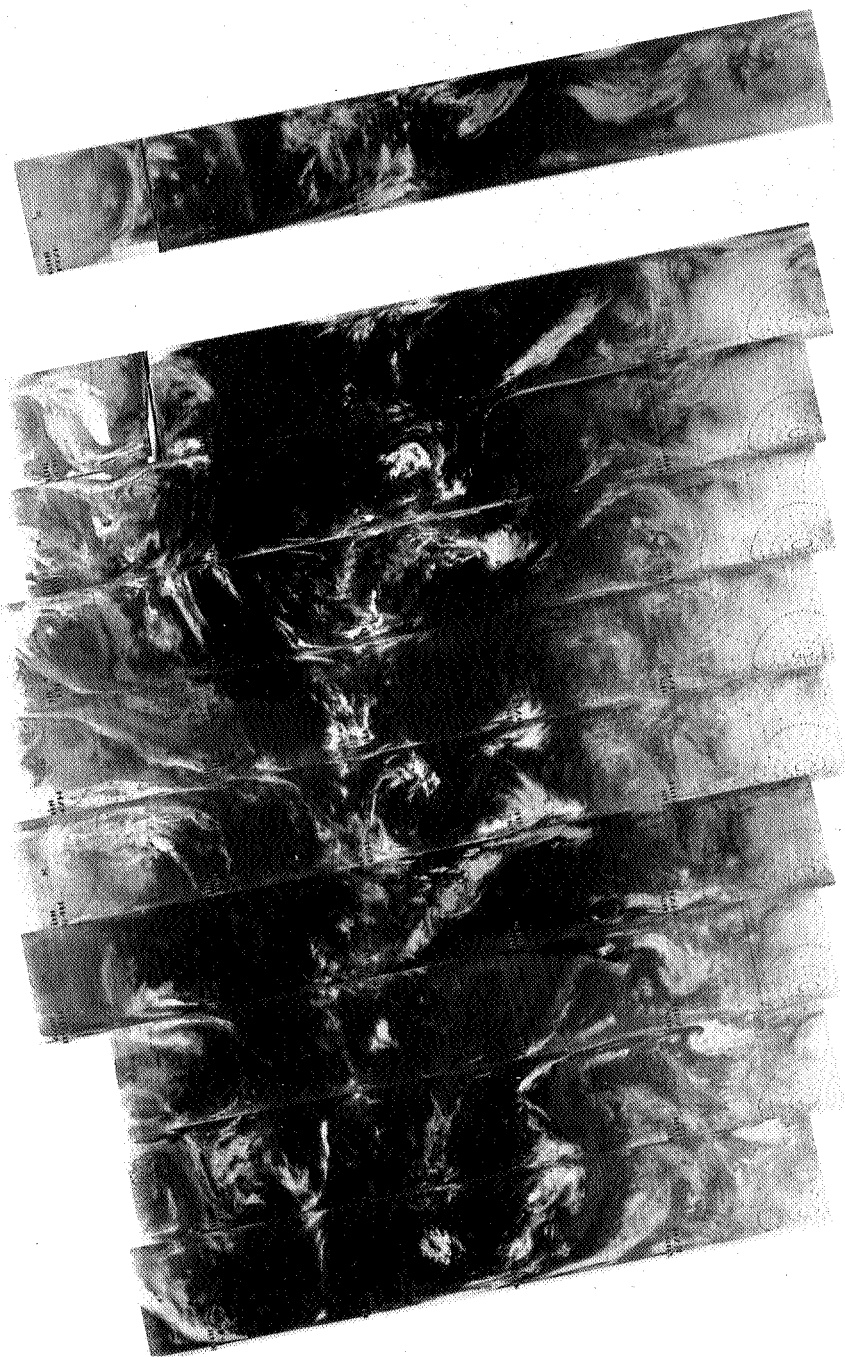
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

5862 5861 5860 5859 5858 5857 5856 5855 5854 5853 5852 5851 5850 5849

20 FEBRUARY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



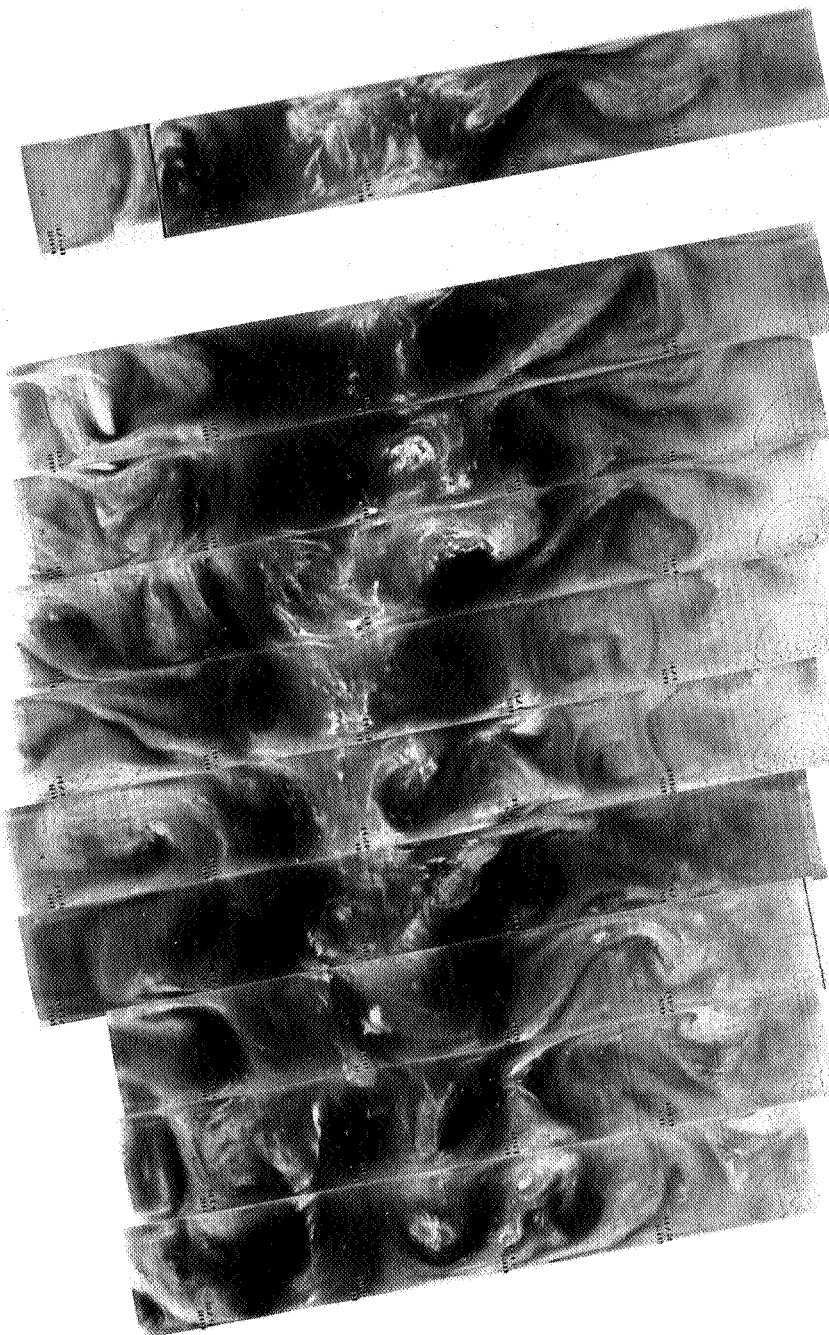
5875 5874 5873 5872 5871 5870 5869 5868 5867 5866 5865 5864 5863

21 FEBRUARY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



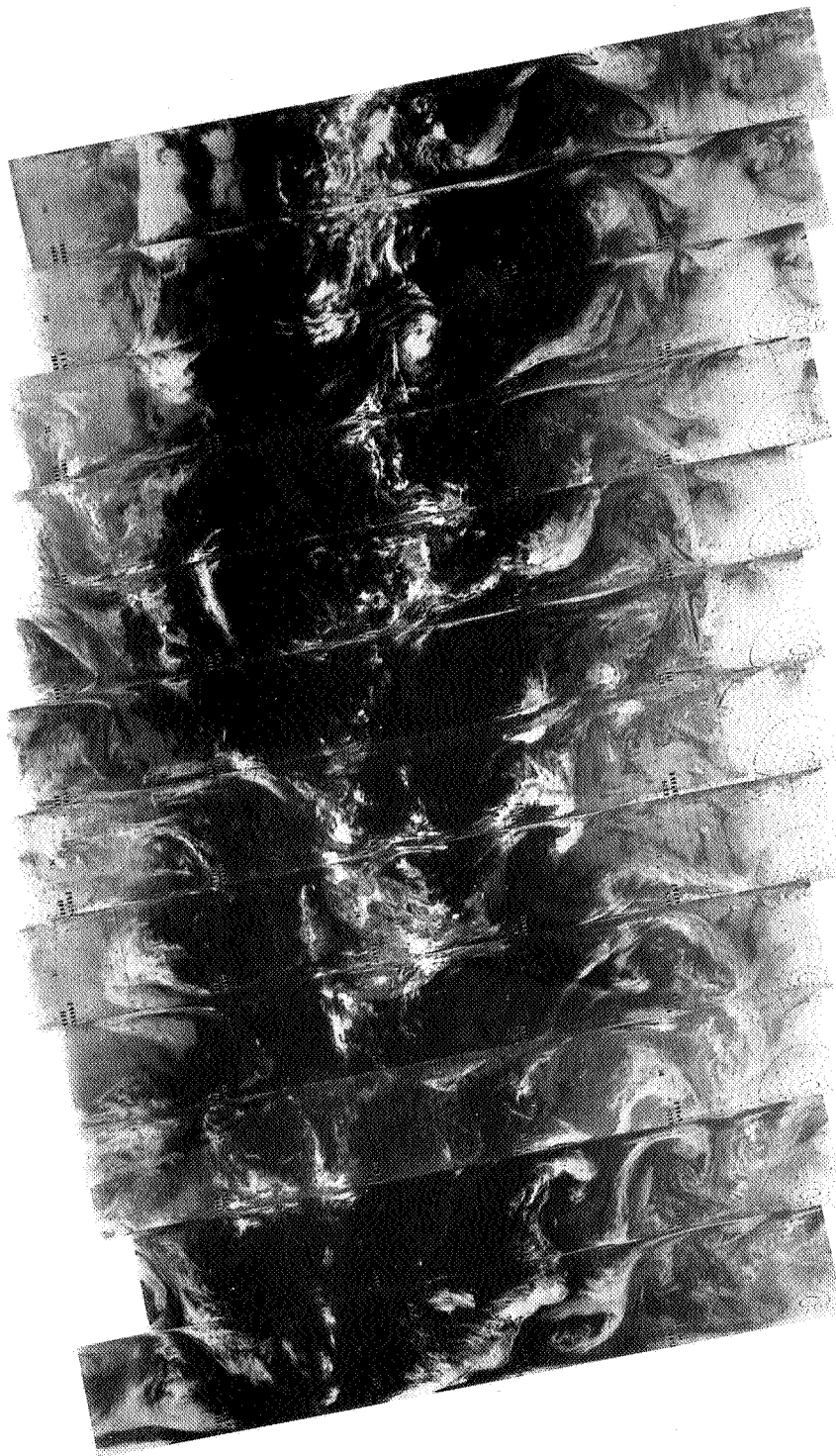
5875 5874 5873 5872 5871 5870 5869 5868 5867 5866 5865 5864 5863

21 FEBRUARY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



5876

5877

5878

5879

5880

5881

5882

5883

5884

5885

5886

5887

5888

22 FEBRUARY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



5888 5887 5886 5885 5884 5883 5882 5881 5880 5879 5878 5877 5876

22 FEBRUARY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

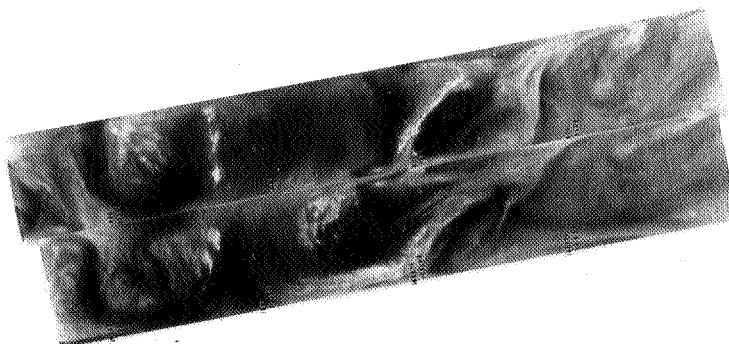
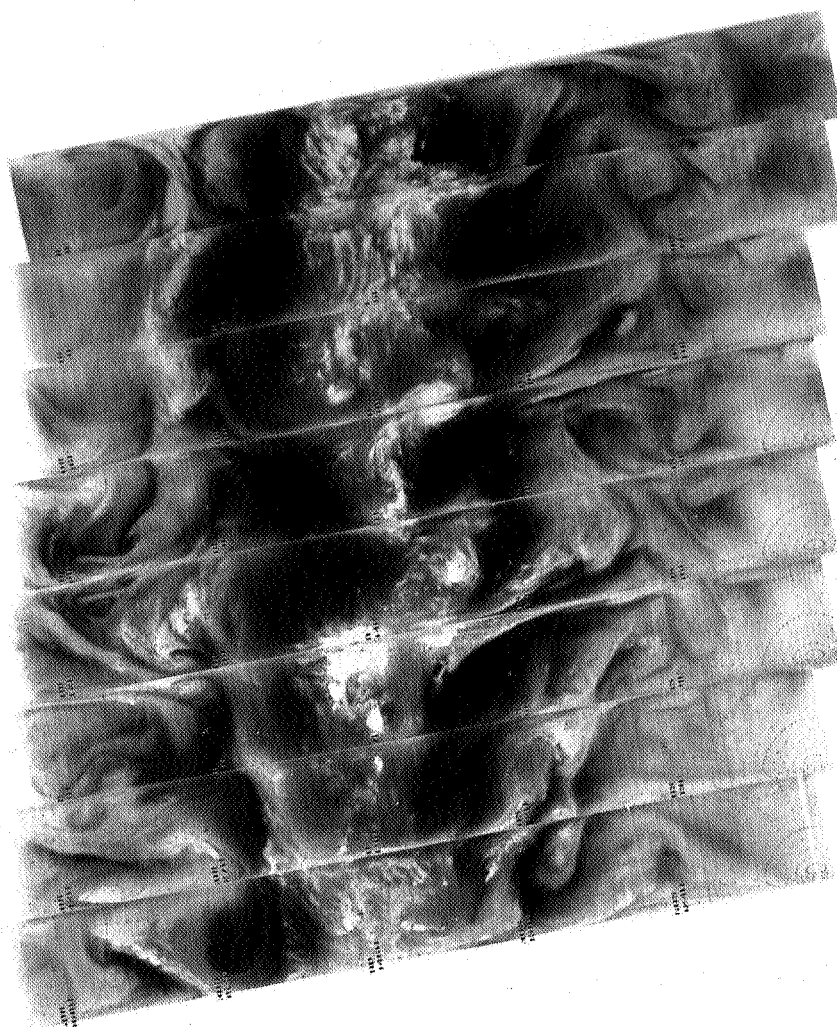
4-168

5902 5901 5900 5899 5898 5897 5896 5895 5894 5893 5892 5891 5890 5889

23 FEBRUARY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



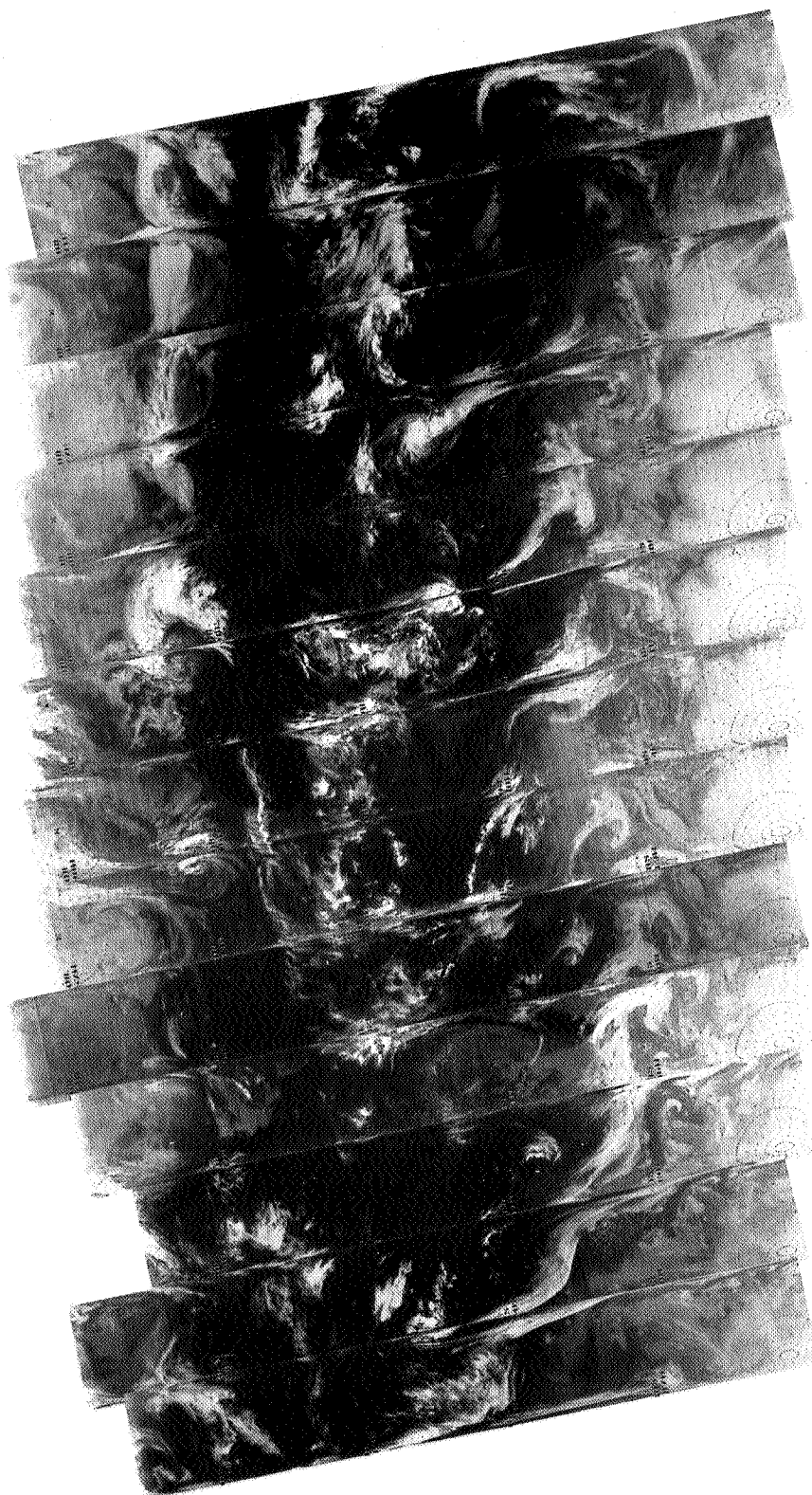
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

5902 5901 5900 5899 5898 5897 5896 5895 5894 5893 5892 5891 5890 5889

23 FEBRUARY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



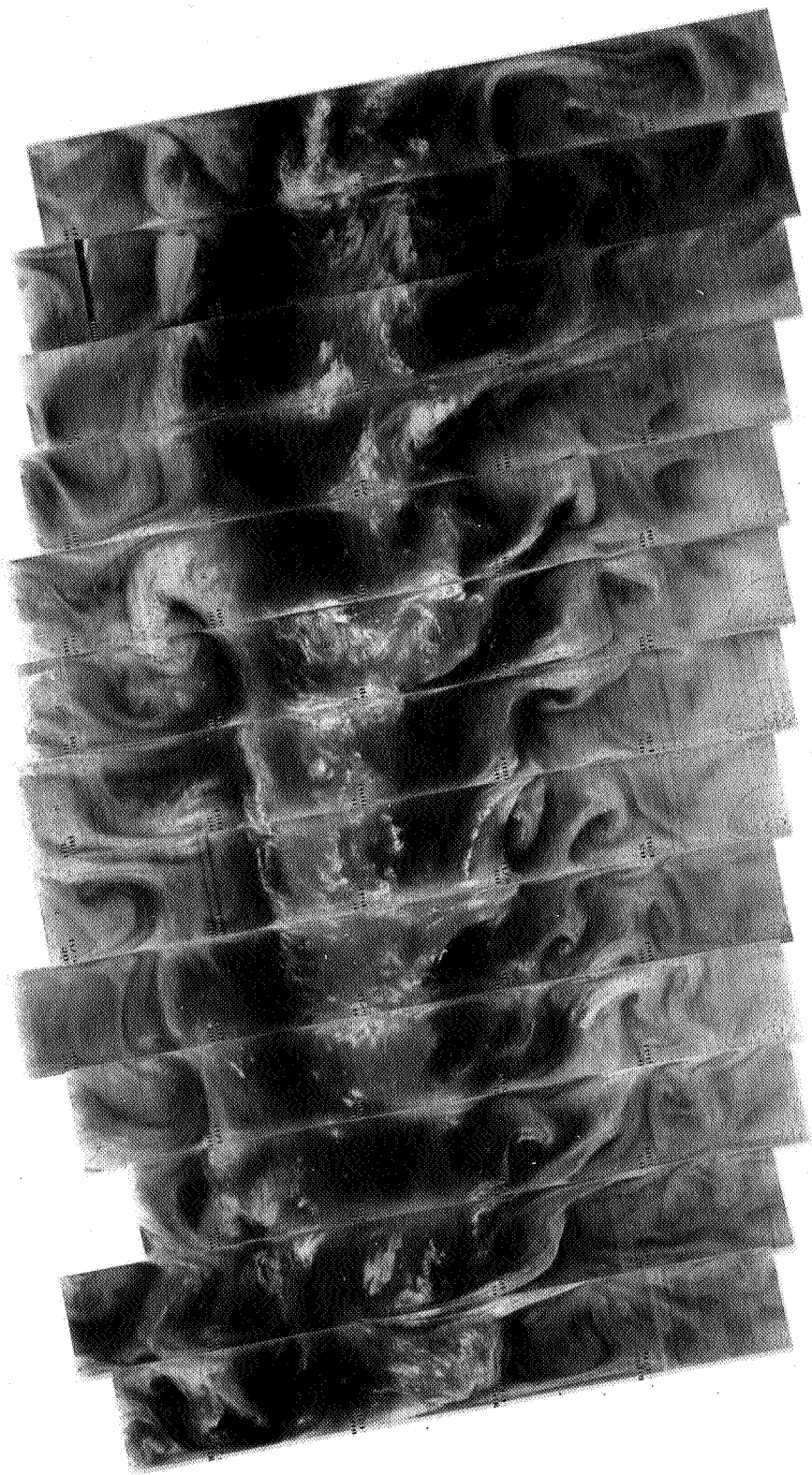
5915 5914 5913 5912 5911 5910 5909 5908 5907 5906 5905 5904 5903

24 FEBRUARY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



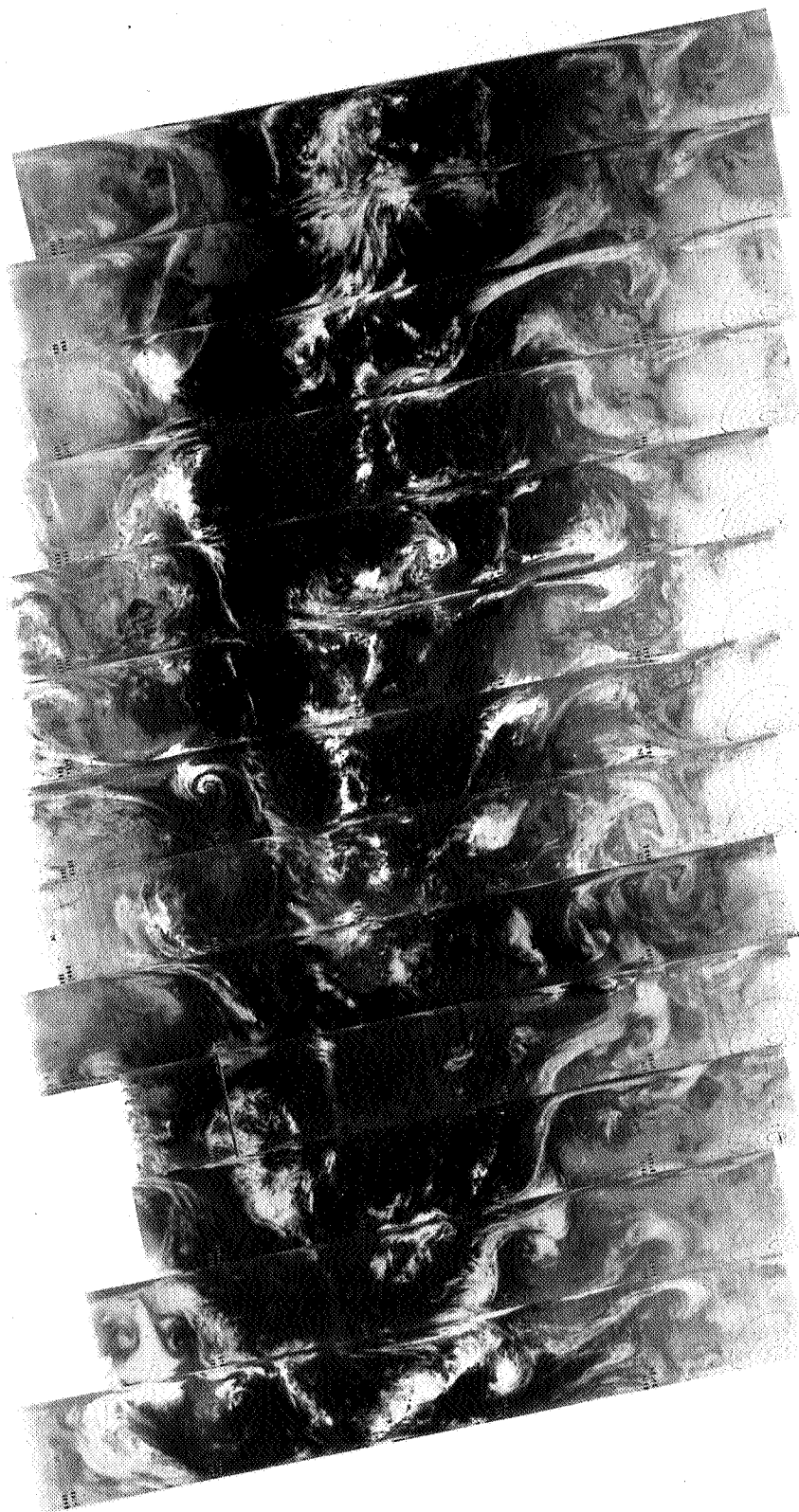
5915 5914 5913 5912 5911 5910 5909 5908 5907 5906 5905 5904 5903

24 FEBRUARY 1974

6.7 μm

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 21 26 28 30 min.



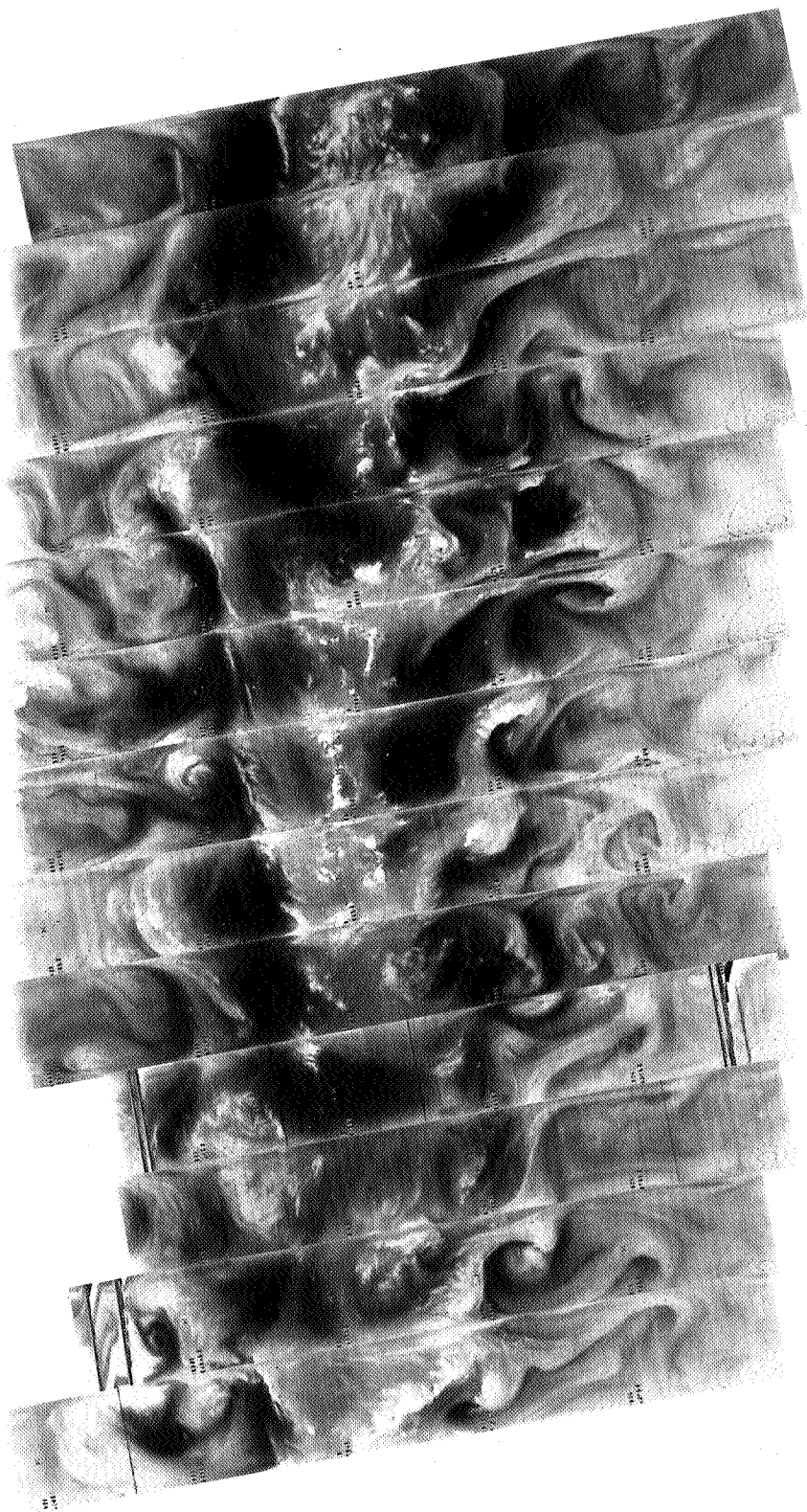
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 21 26 28 30 min.

5929 5928 5927 5926 5925 5924 5923 5922 5921 5920 5919 5918 5917 5916

25 FEBRUARY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



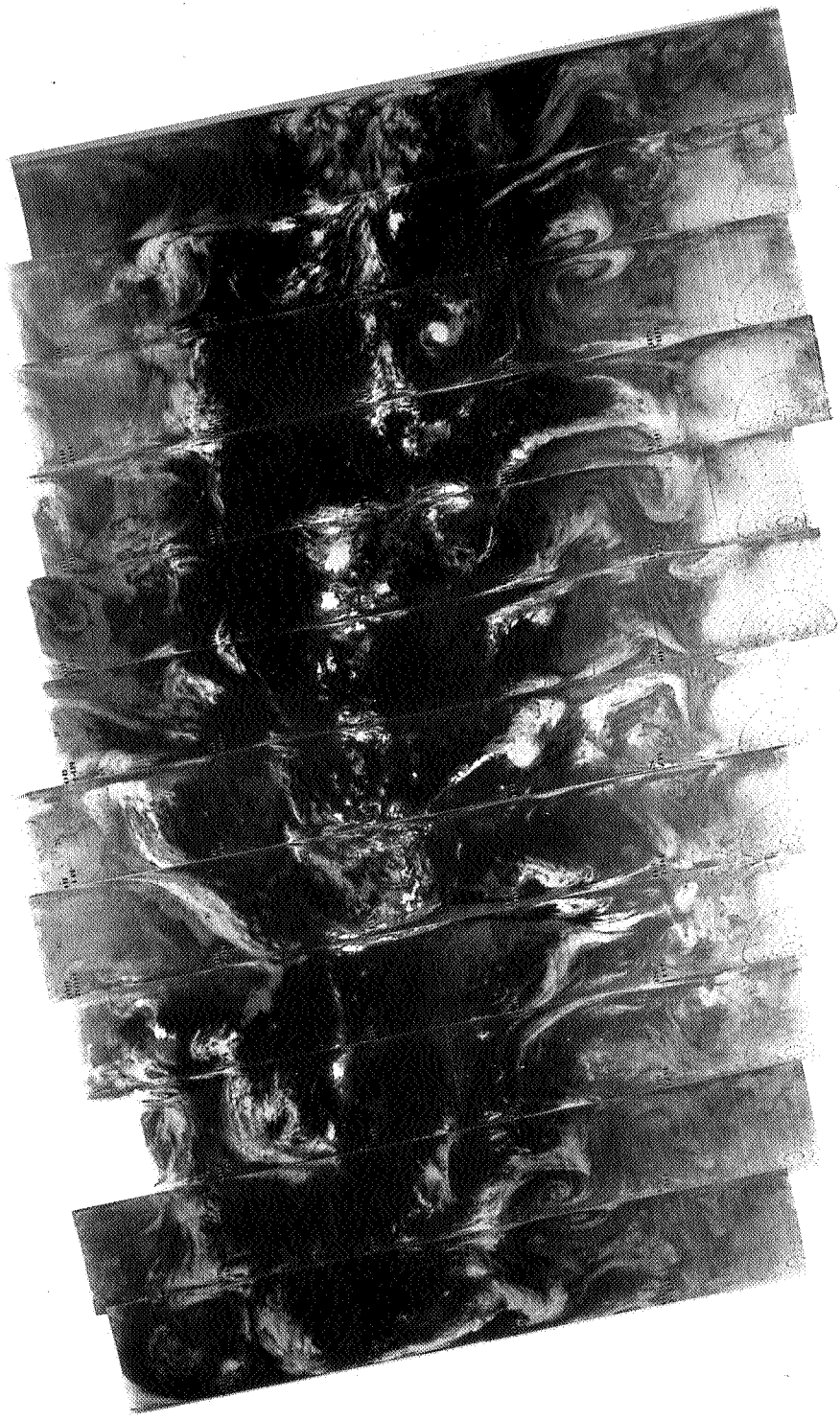
5929 5928 5927 5926 5925 5924 5923 5922 5921 5920 5919 5918 5917 5916

25 FEBRUARY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

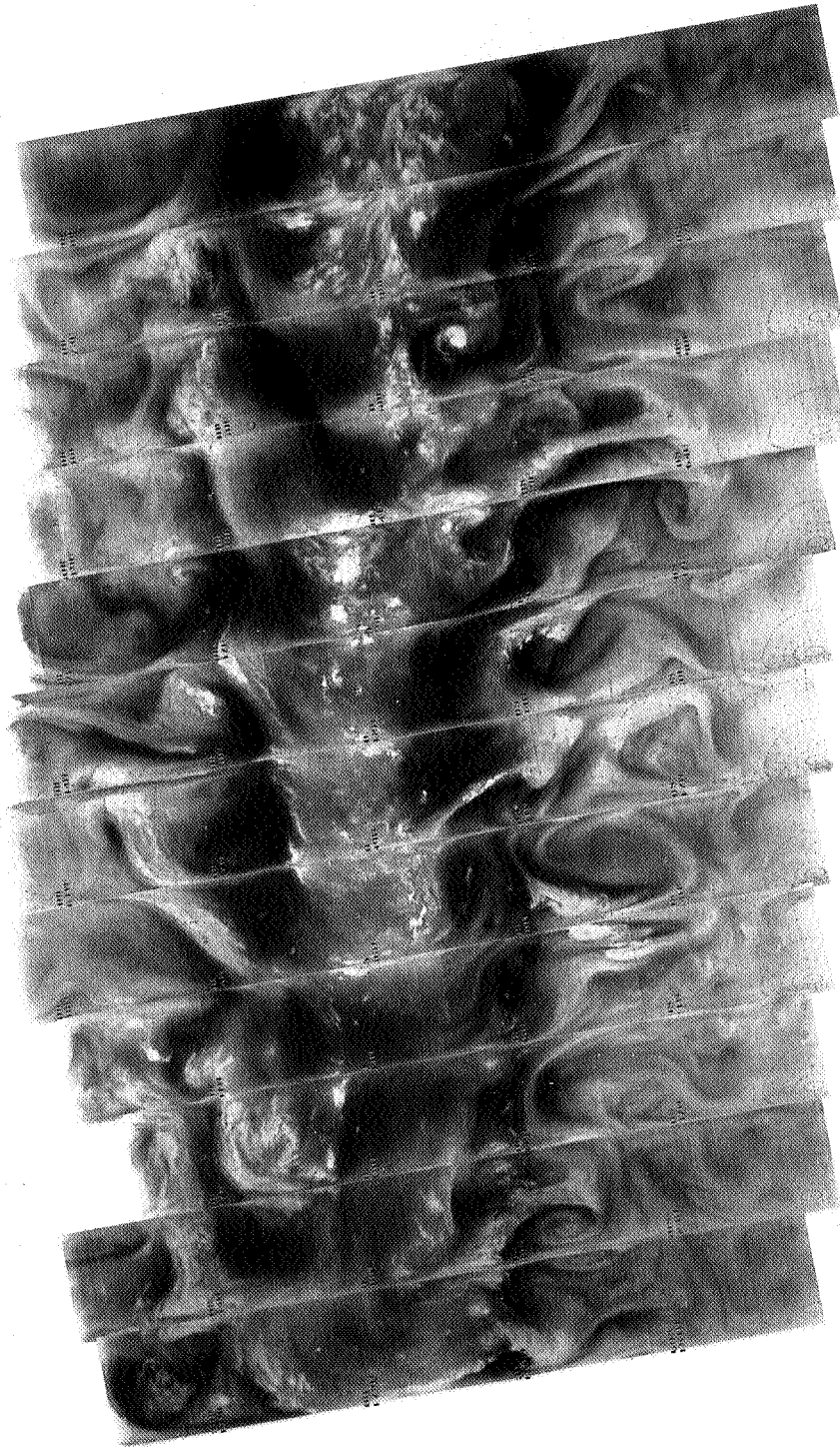
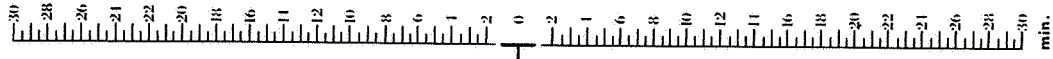


30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

5942 5941 5940 5939 5938 5937 5936 5935 5934 5933 5932 5931 5930

26 FEBRUARY 1974

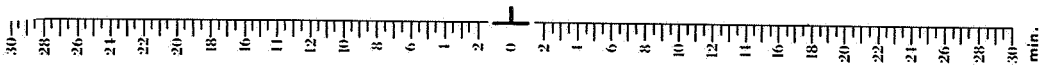
11.5 μ m



5942 5941 5940 5939 5938 5937 5936 5935 5934 5933 5932 5931 5930

26 FEBRUARY 1974

6.7 μ m



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



5955 5954 5953 5952 5951 5950 5949 5948 5947 5946 5945 5944 5943

27 FEBRUARY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



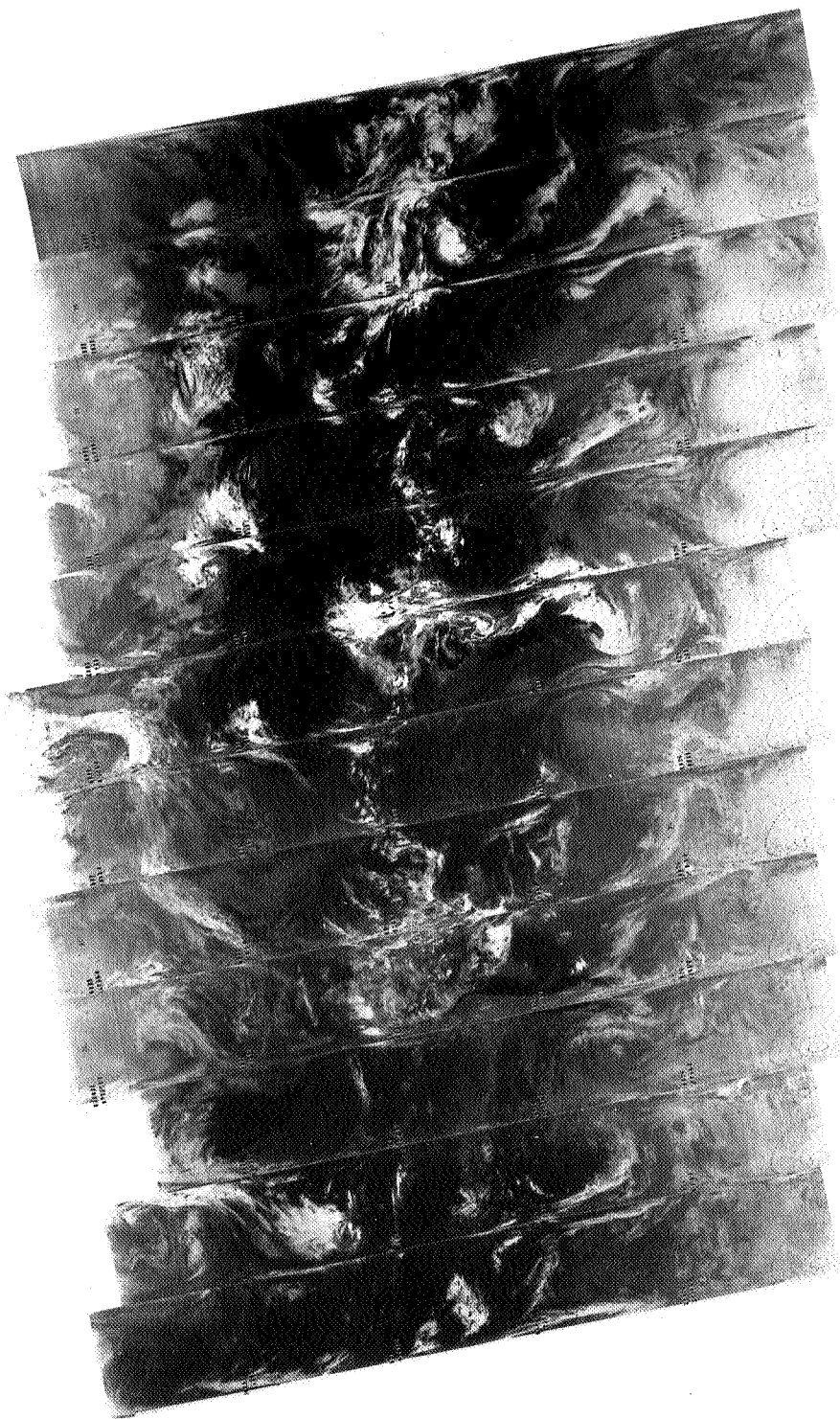
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

5955 5954 5953 5952 5951 5950 5949 5948 5947 5946 5945 5944 5943

27 FEBRUARY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

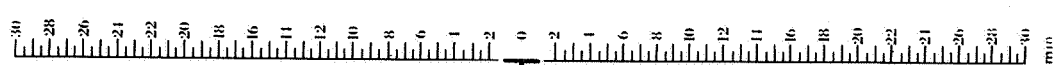
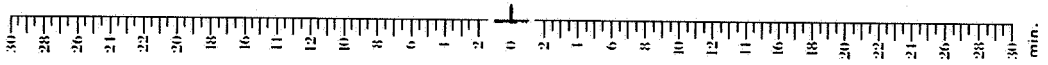


30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

5969 5968 5967 5966 5965 5964 5963 5962 5961 5960 5959 5958 5957 5956

28 FEBRUARY 1974

11.5 μ m



5969 5968 5967 5966 5965 5964 5963 5962 5961 5960 5959 5958 5957 5956

28 FEBRUARY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

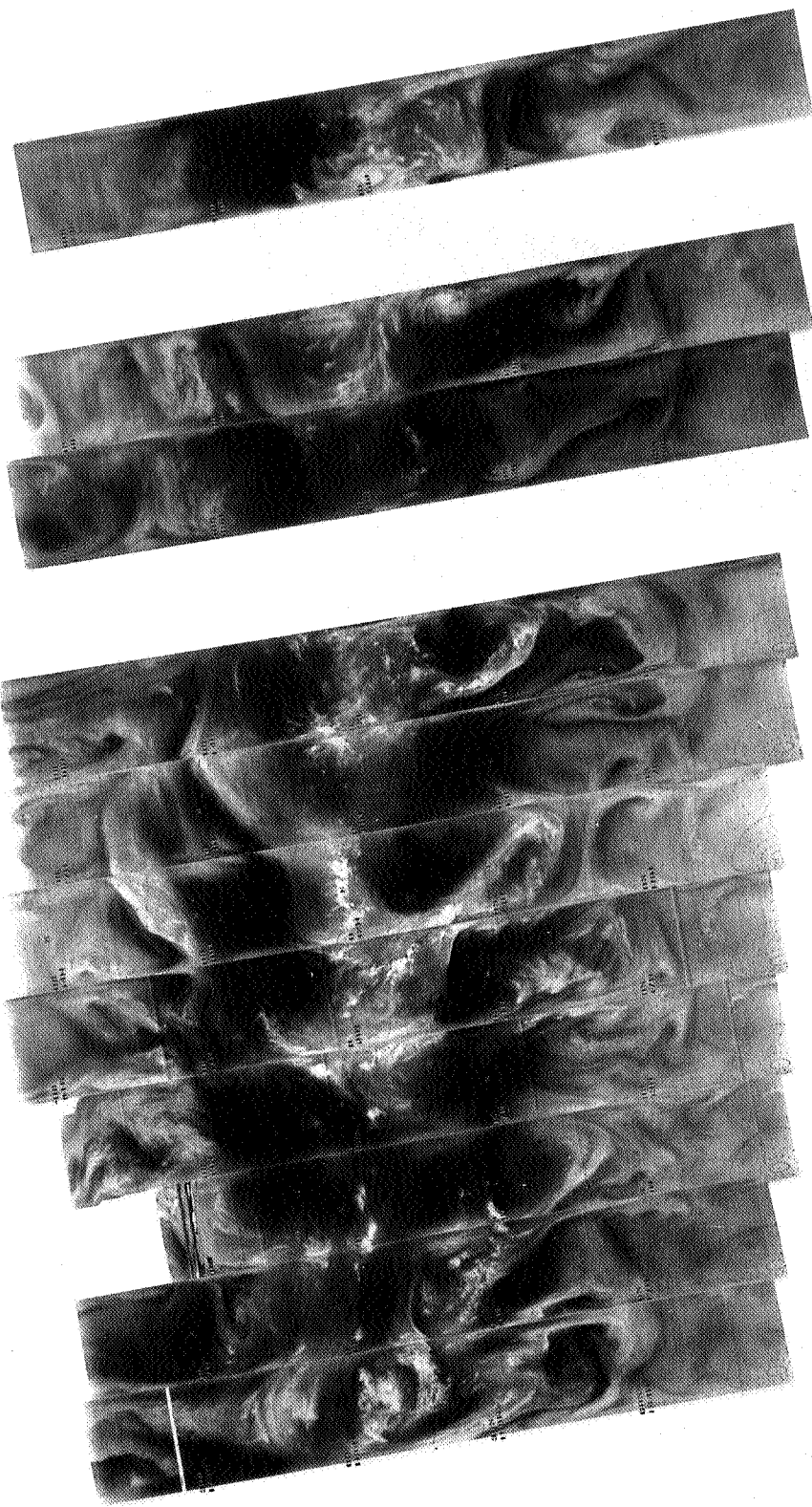
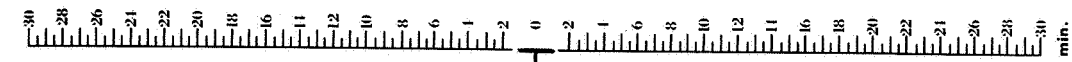


5982 5981 5980 5979 5978 5977 5976 5975 5974 5973 5972 5971 5970

1 MARCH 1974

11.5 μ m

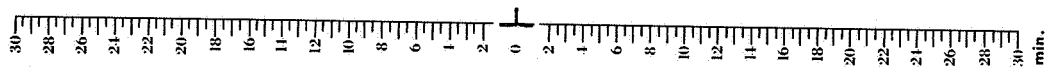
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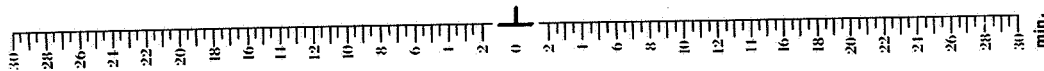
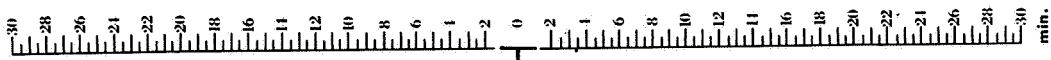


5982 5981 5980 5979 5978 5977 5976 5975 5974 5973 5972 5971 5970

1 MARCH 1974

6.7 μ m



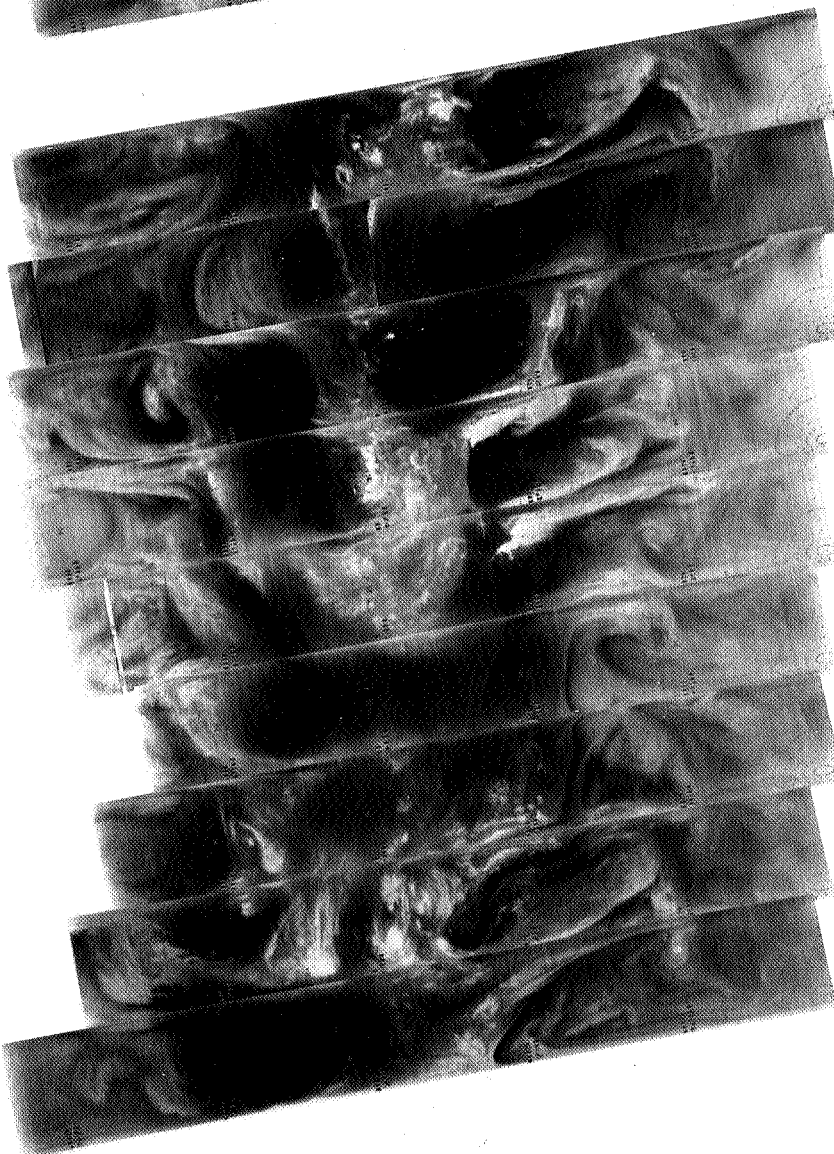
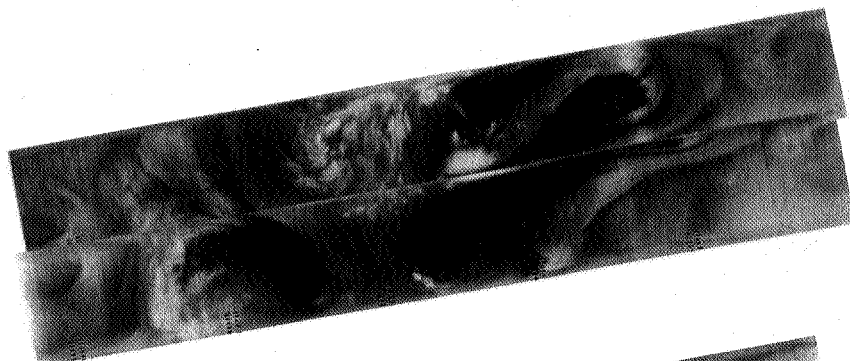


5996 5995 5994 5993 5992 5991 5990 5989 5988 5987 5986 5985 5984 5983

2 MARCH 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

5996 5995 5994 5993 5992 5991 5990 5989 5988 5987 5986 5985 5984 5983

2 MARCH 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

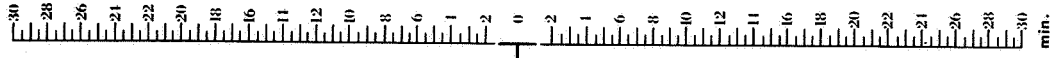


6009 6008 6007 6006 6005 6004 6003 6002 6001 6000 5999 5998 5997

3 MARCH 1974

11.5 μ m

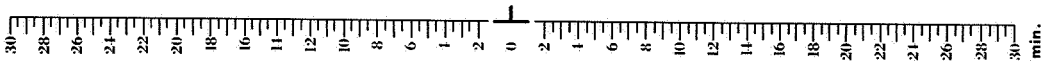
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



6009 6008 6007 6006 6005 6004 6003 6002 6001 6000 5999 5998 5997

3 MARCH 1974

6.7 μ m



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



6023 6022 6021 6020 6019 6018 6017 6016 6015 6014 6013 6012 6011 6010

4 MARCH 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

6023 6022 6021 6020 6019 6018 6017 6016 6015 6014 6013 6012 6011 6010

4 MARCH 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



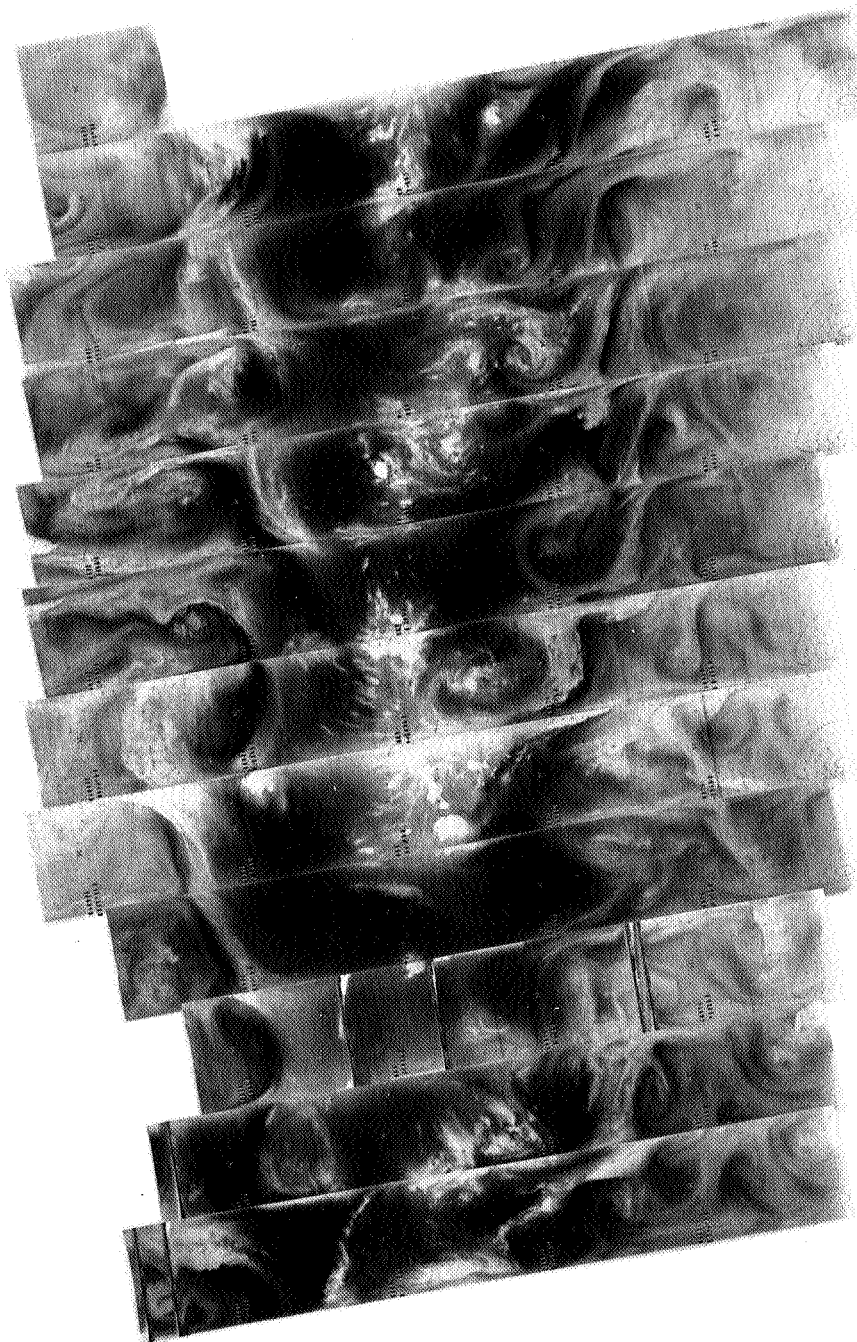
6036 6035 6034 6033 6032 6031 6030 6029 6028 6027 6026 6025 6024

5 MARCH 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



6036 6035 6034 6033 6032 6031 6030 6029 6028 6027 6026 6025 6024

5 MARCH 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



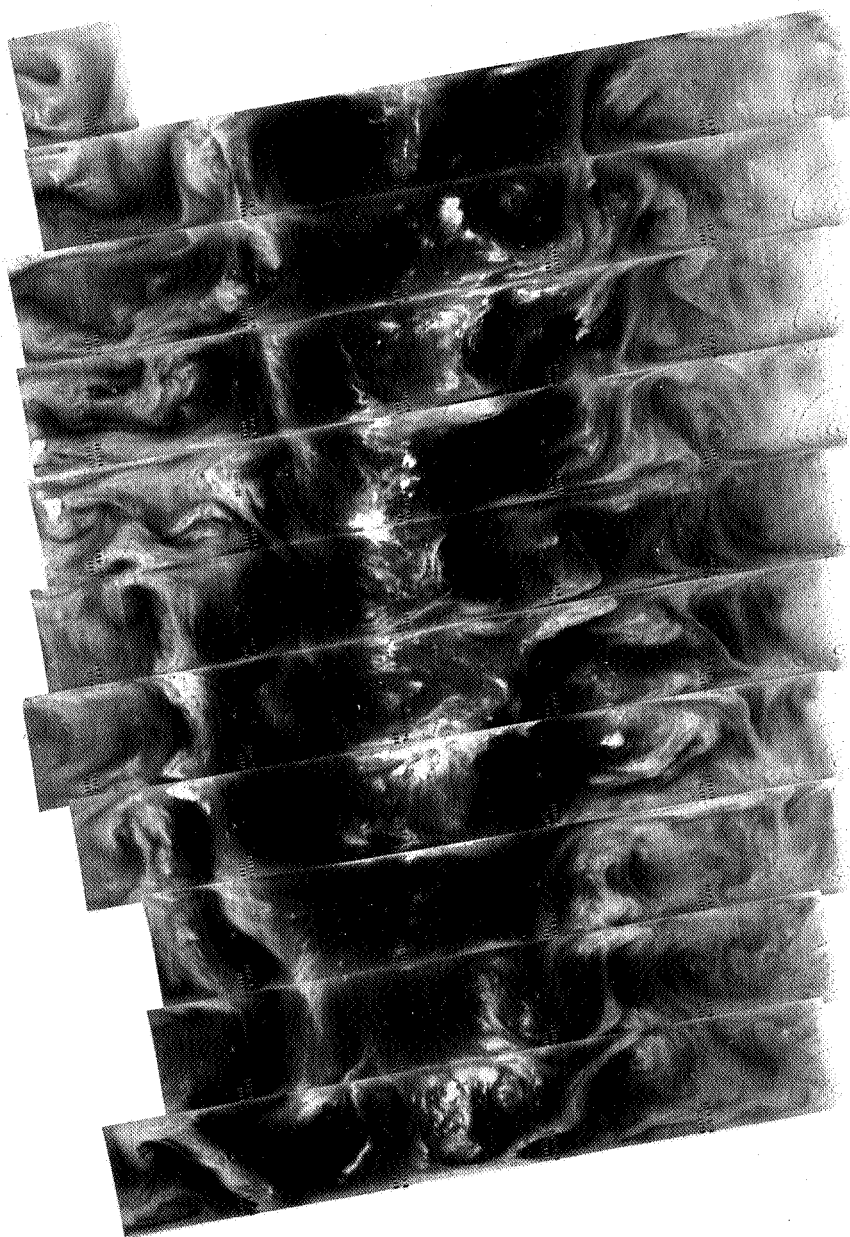
6049 6048 6047 6046 6045 6044 6043 6042 6041 6040 6039 6038 6037

6 MARCH 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



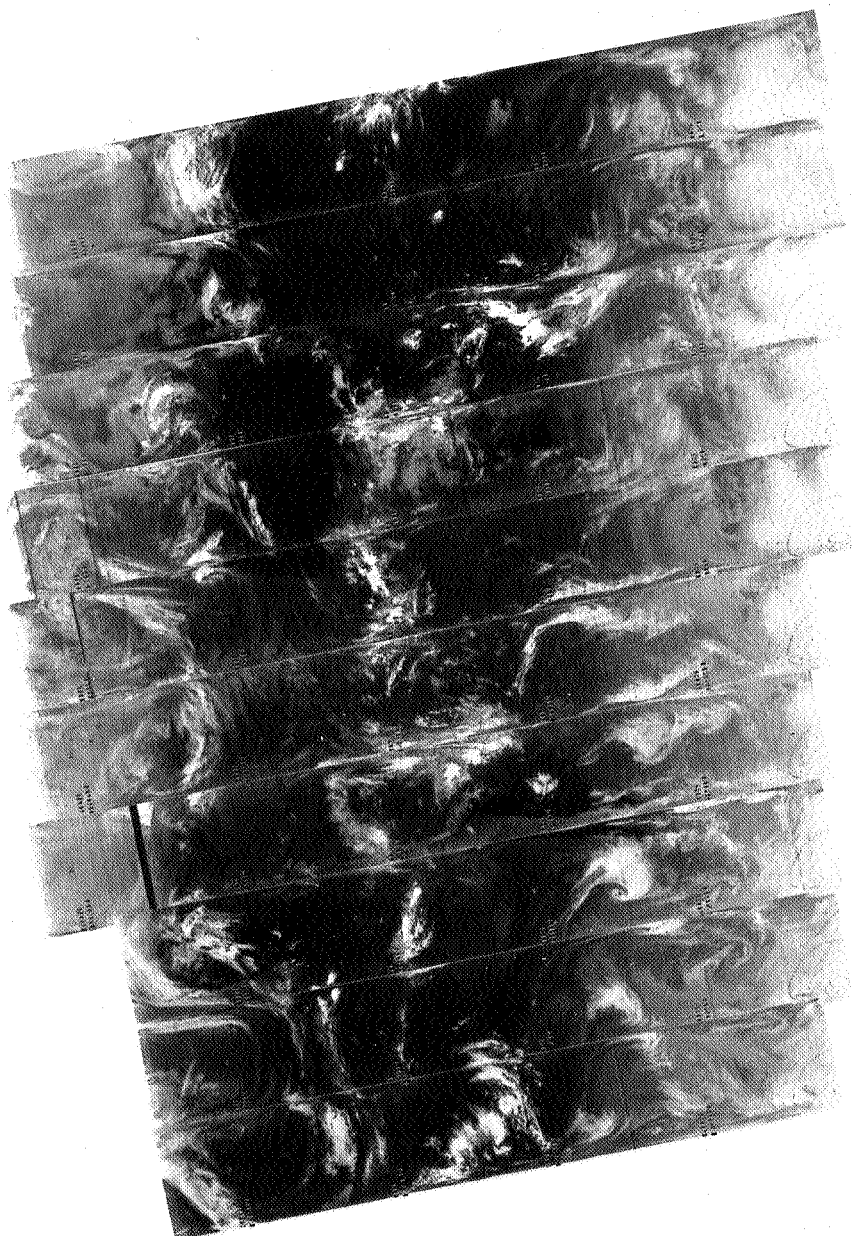
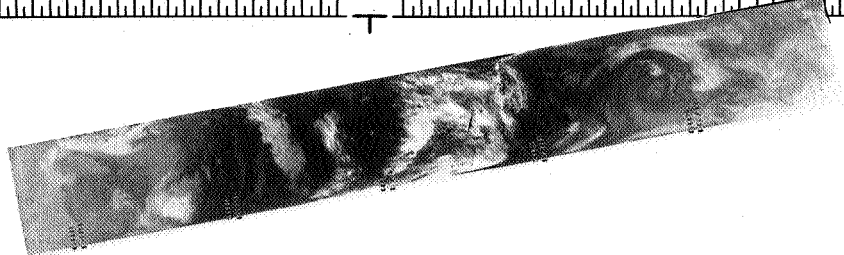
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

6049 6048 6047 6046 6045 6044 6043 6042 6041 6040 6039 6038 6037

6 MARCH 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



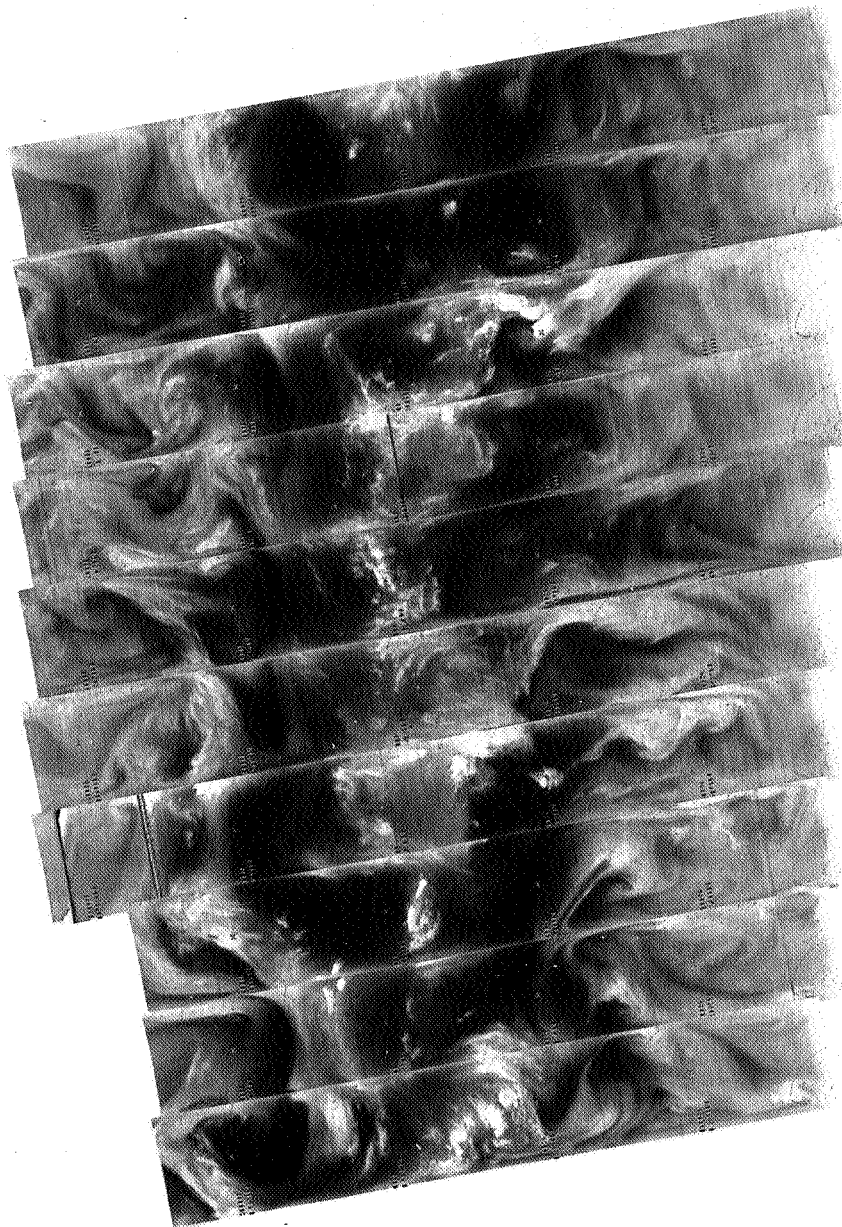
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

6063 6062 6061 6060 6059 6058 6057 6056 6055 6054 6053 6052 6051 605

7 MARCH 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



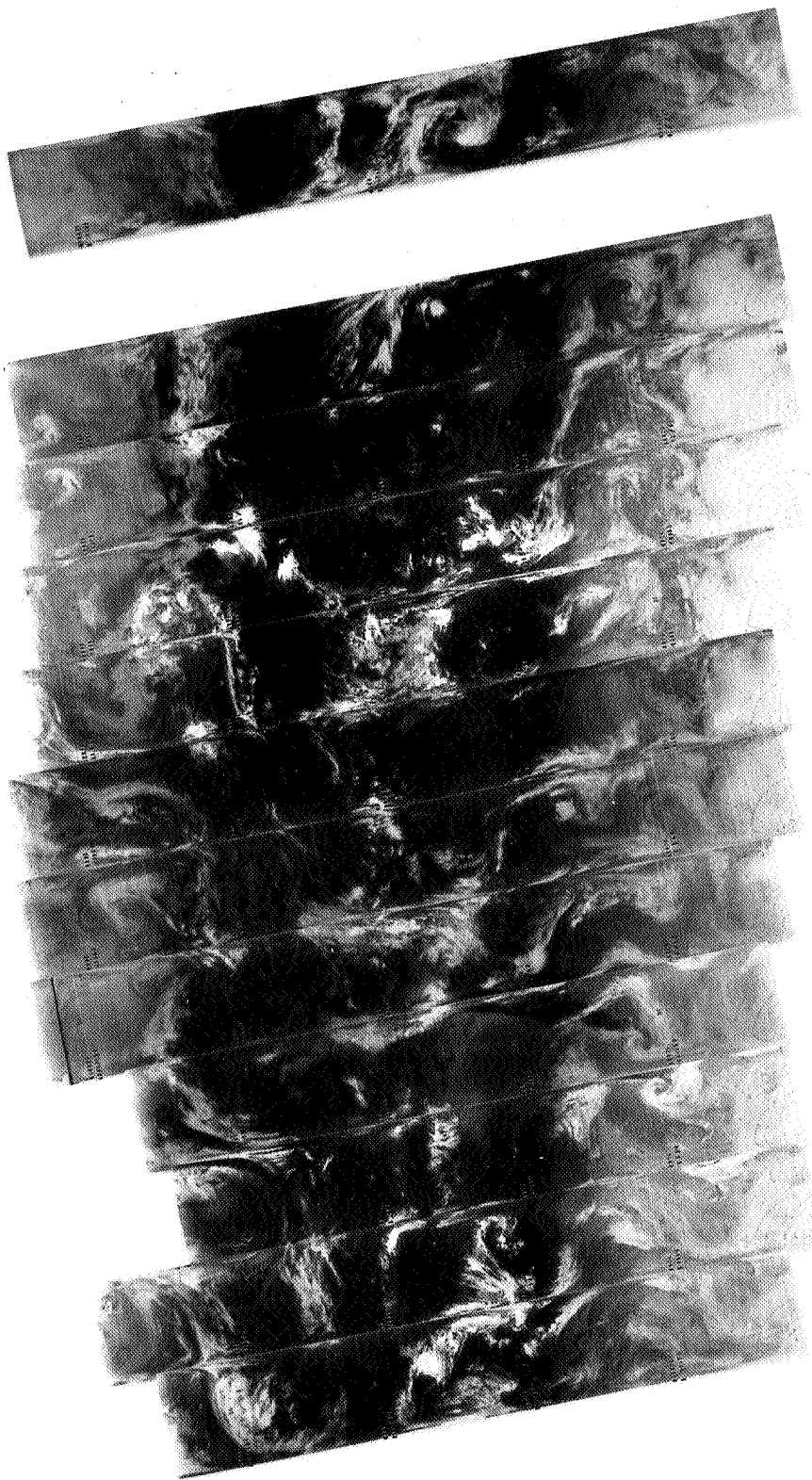
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

6063 6062 6061 6060 6059 6058 6057 6056 6055 6054 6053 6052 6051 6050

7 MARCH 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



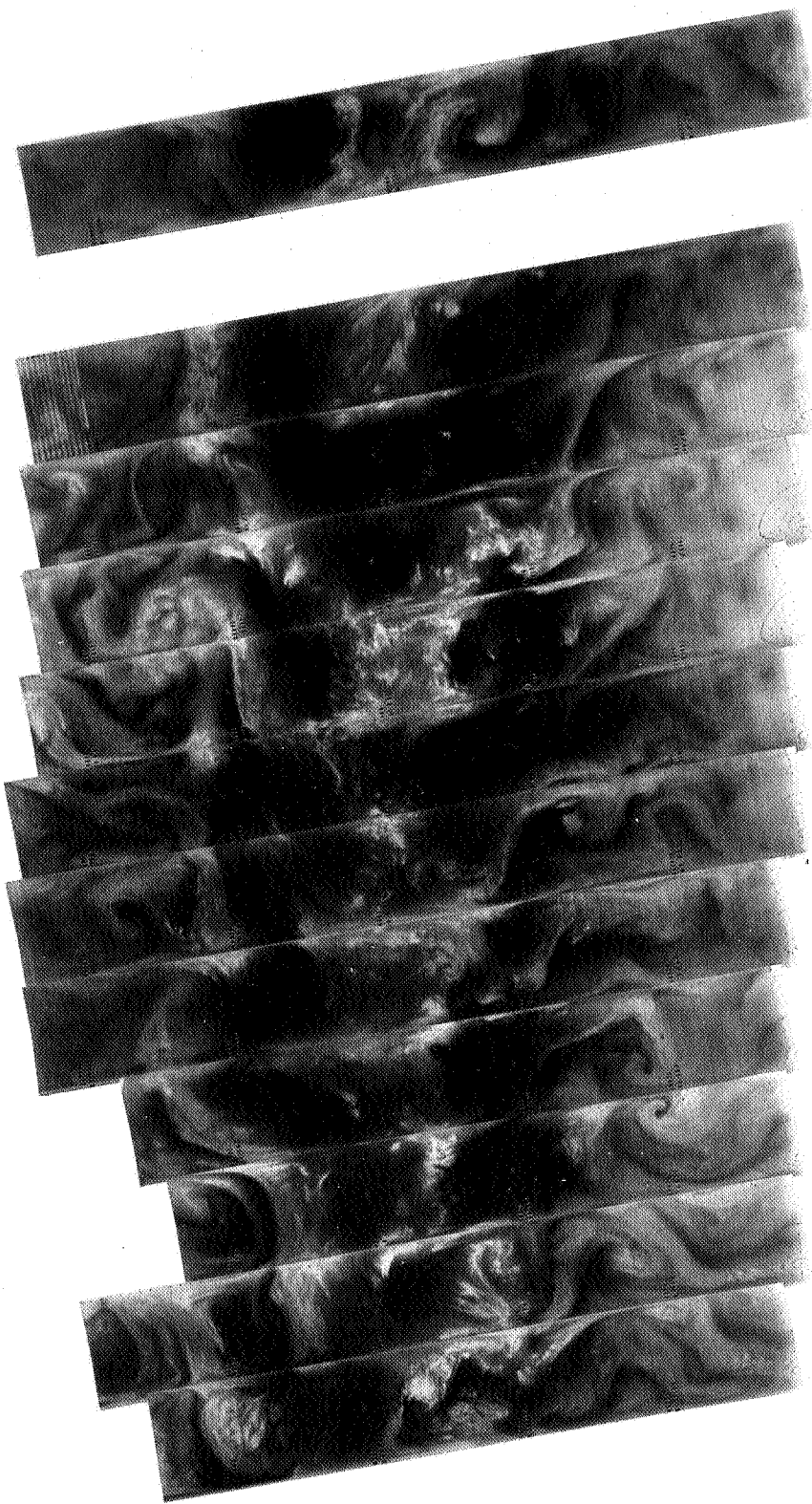
6076 6075 6074 6073 6072 6071 6070 6069 6068 6067 6066 6065 6064

8 MARCH 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



6076 6075 6074 6073 6072 6071 6070 6069 6068 6067 6066 6065 6064

8 MARCH 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



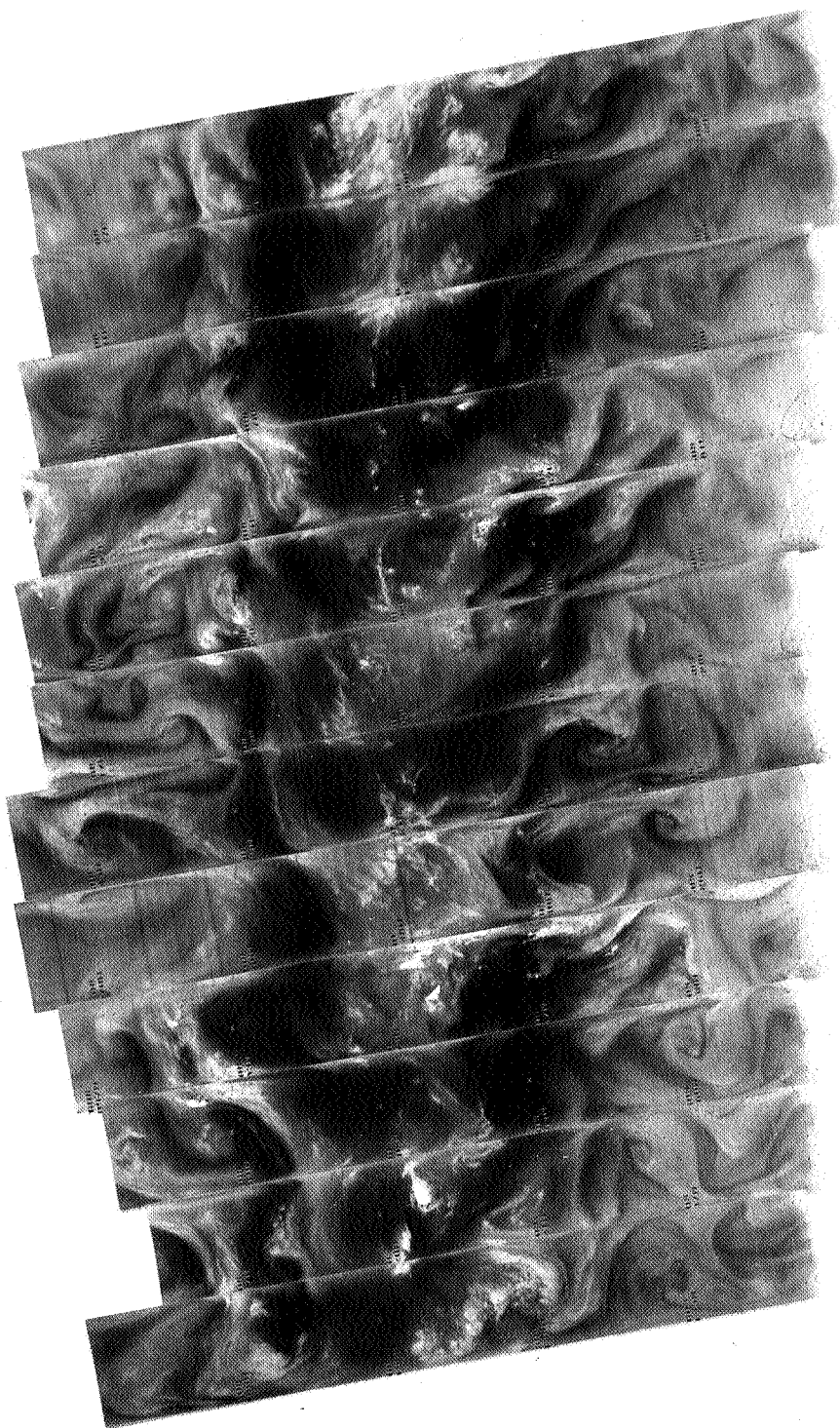
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

6090 6089 6088 6087 6086 6085 6084 6083 6082 6081 6080 6079 6078 6077

9 MARCH 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



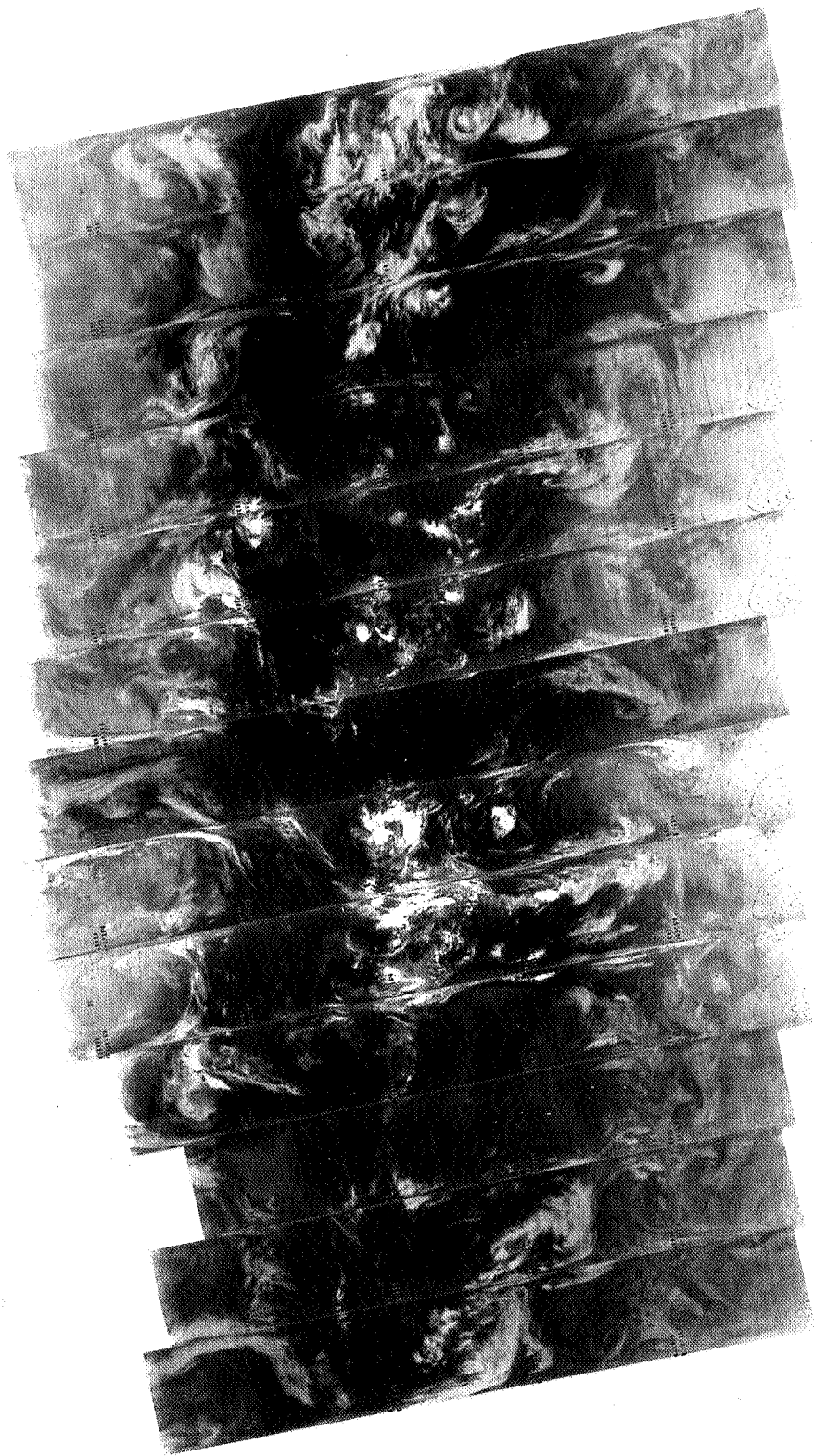
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9 MARCH 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



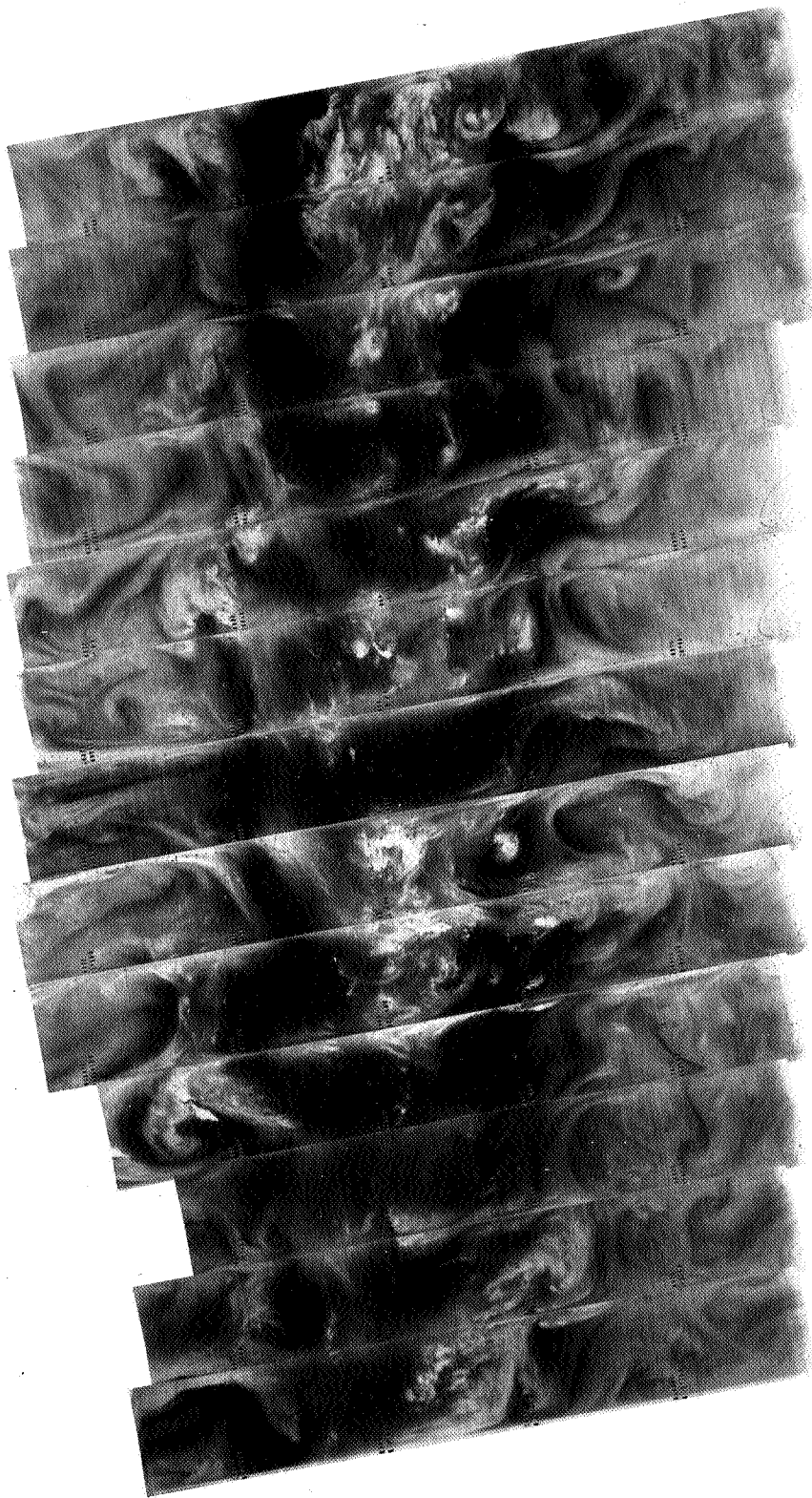
6103 6102 6101 6100 6099 6098 6097 6096 6095 6094 6093 6092 6091

10 MARCH 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



6103 6102 6101 6100 6099 6098 6097 6096 6095 6094 6093 6092 6091

10 MARCH 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

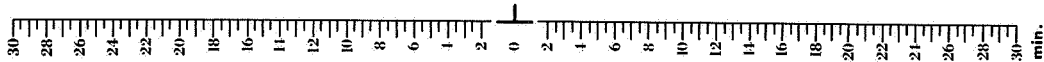
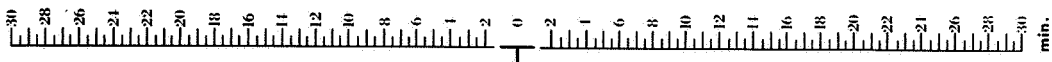


6117 6116 6115 6114 6113 6112 6111 6110 6109 6108 6107 6106 6105 6104

11 MARCH 1974

11.5 m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



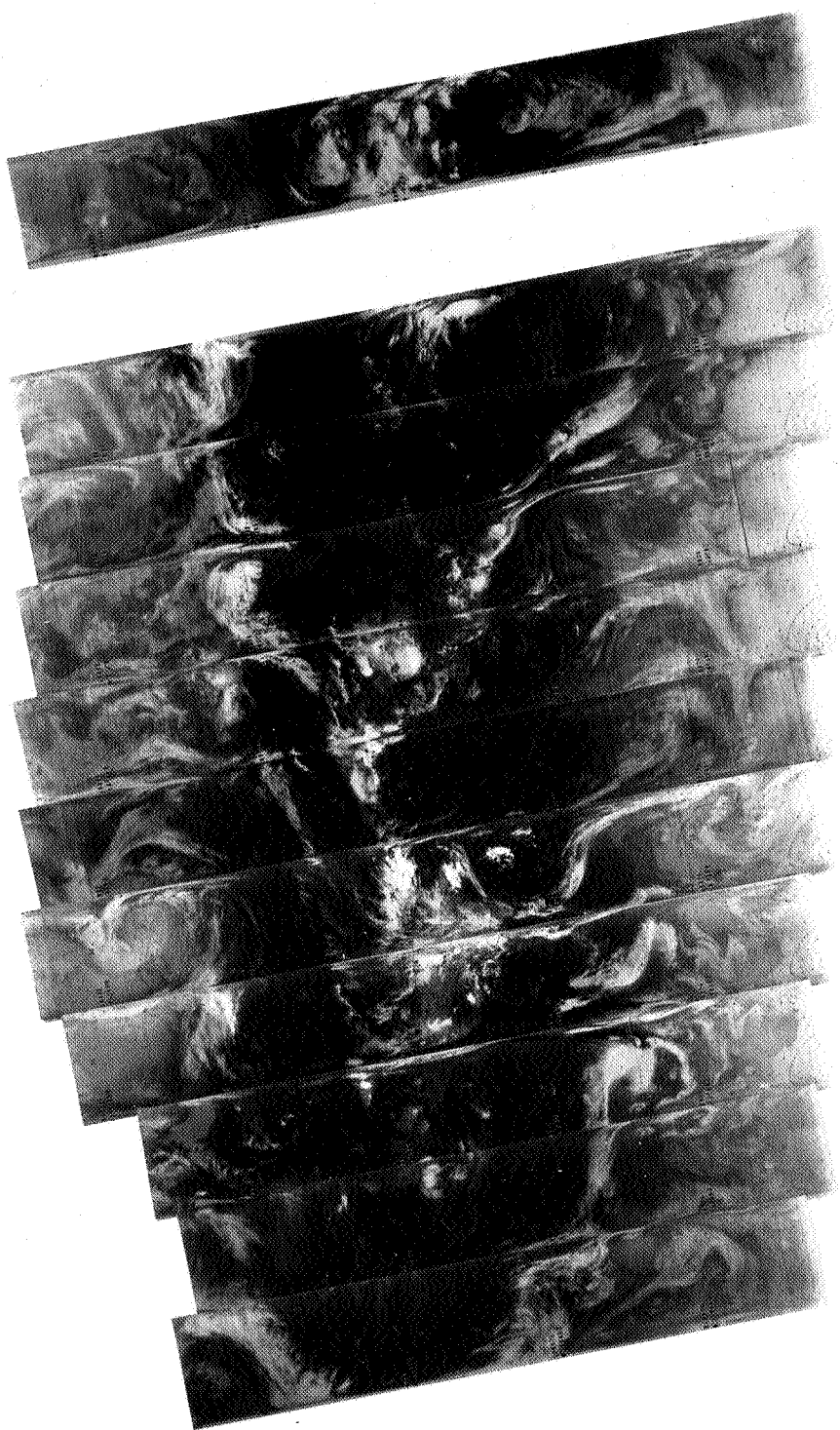
4-201

6117 6116 6115 6114 6113 6112 6111 6110 6109 6108 6107 6106 6105 6104

11 MARCH 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



6130 6129 6128 6127 6126 6125 6124 6123 6122 6121 6120 6119 6118

12 MARCH 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



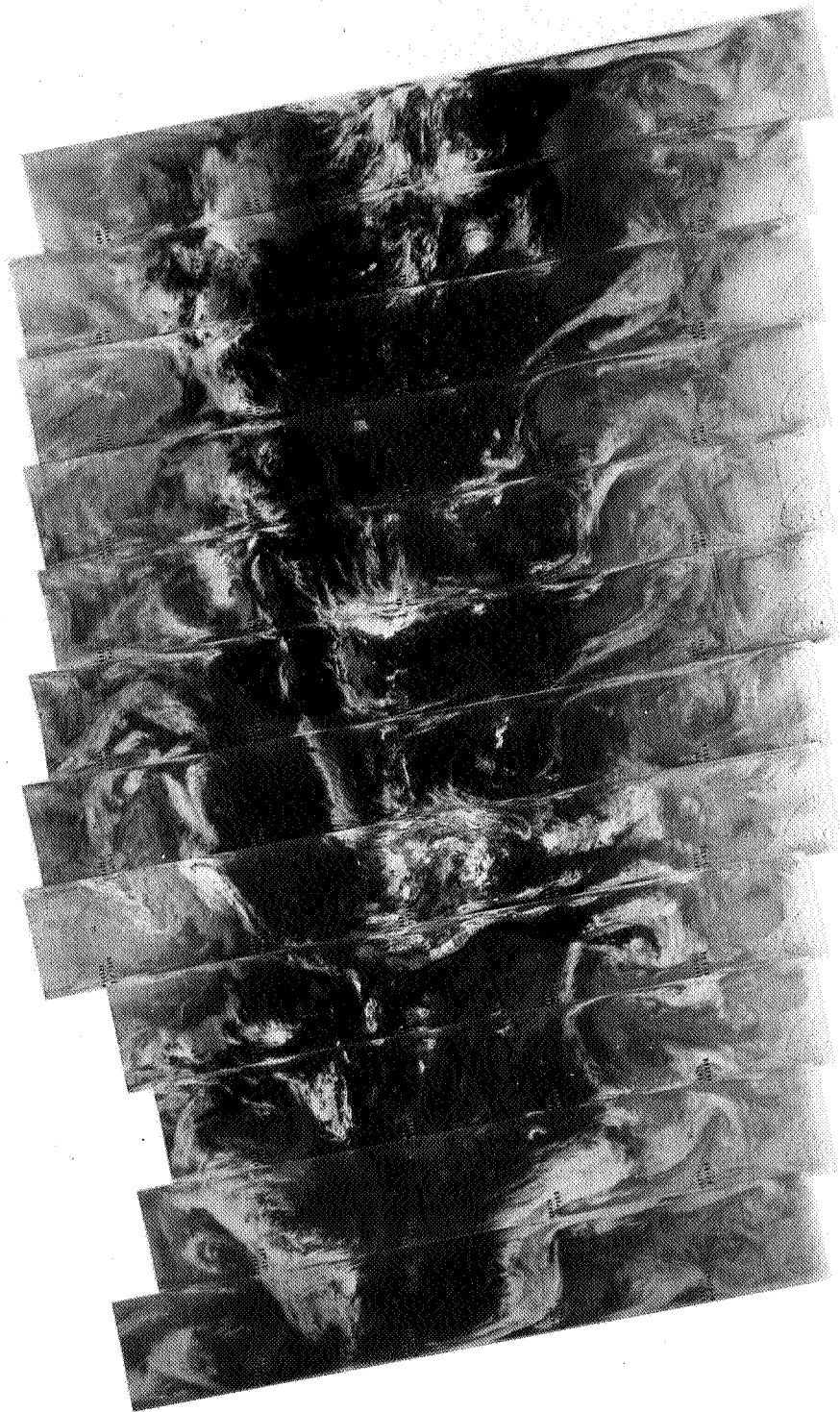
6130 6129 6128 6127 6126 6125 6124 6123 6122 6121 6120 6119 6118

12 MARCH 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

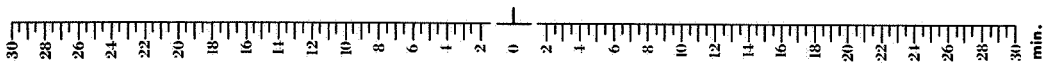
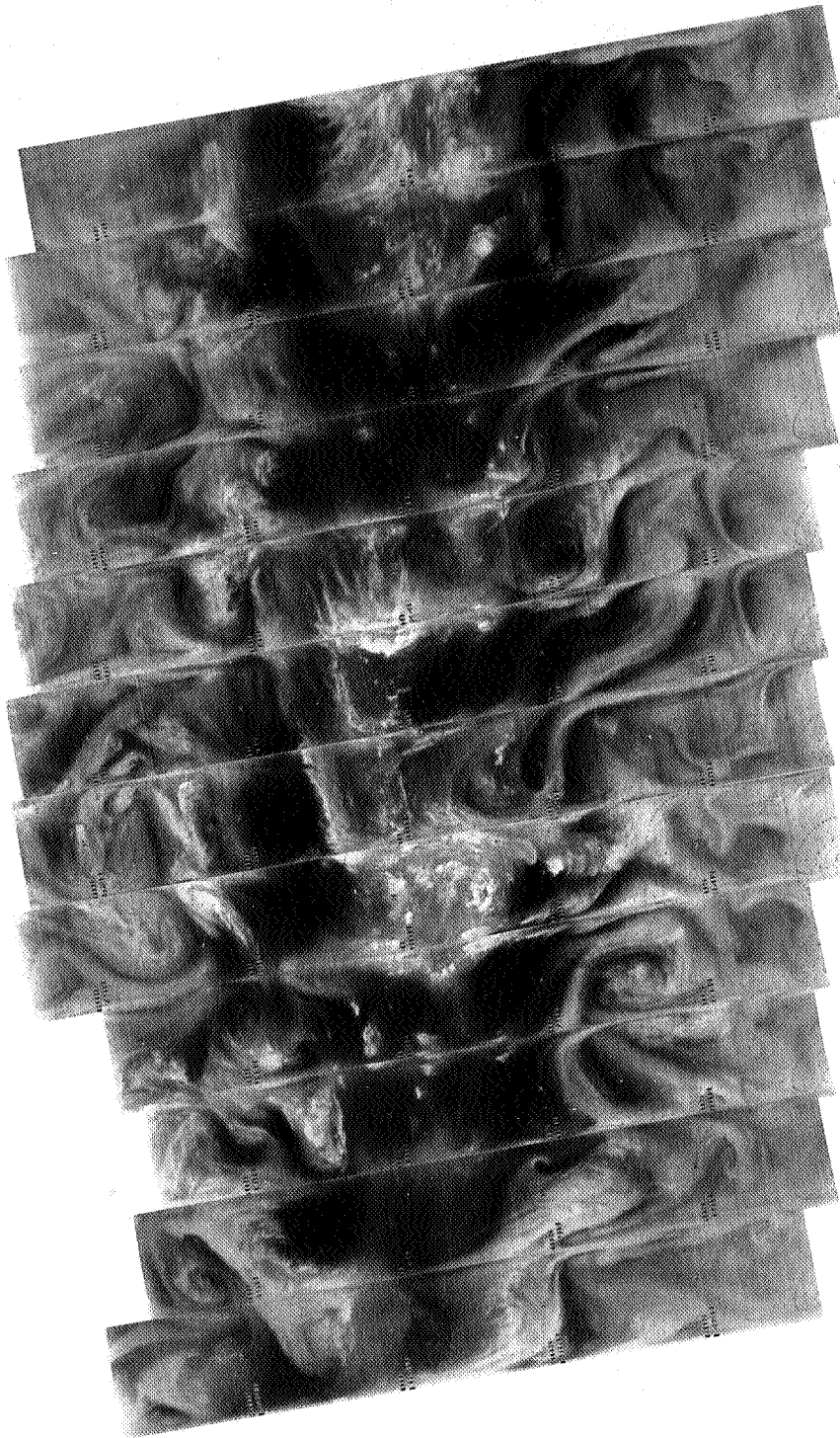
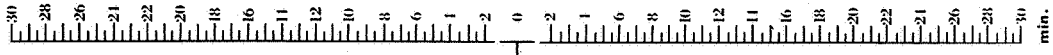


6143 6142 6141 6140 6139 6138 6137 6136 6135 6134 6133 6132 6131

13 MARCH 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



6143 6142 6141 6140 6139 6138 6137 6136 6135 6134 6133 6132 6131

13 MARCH 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



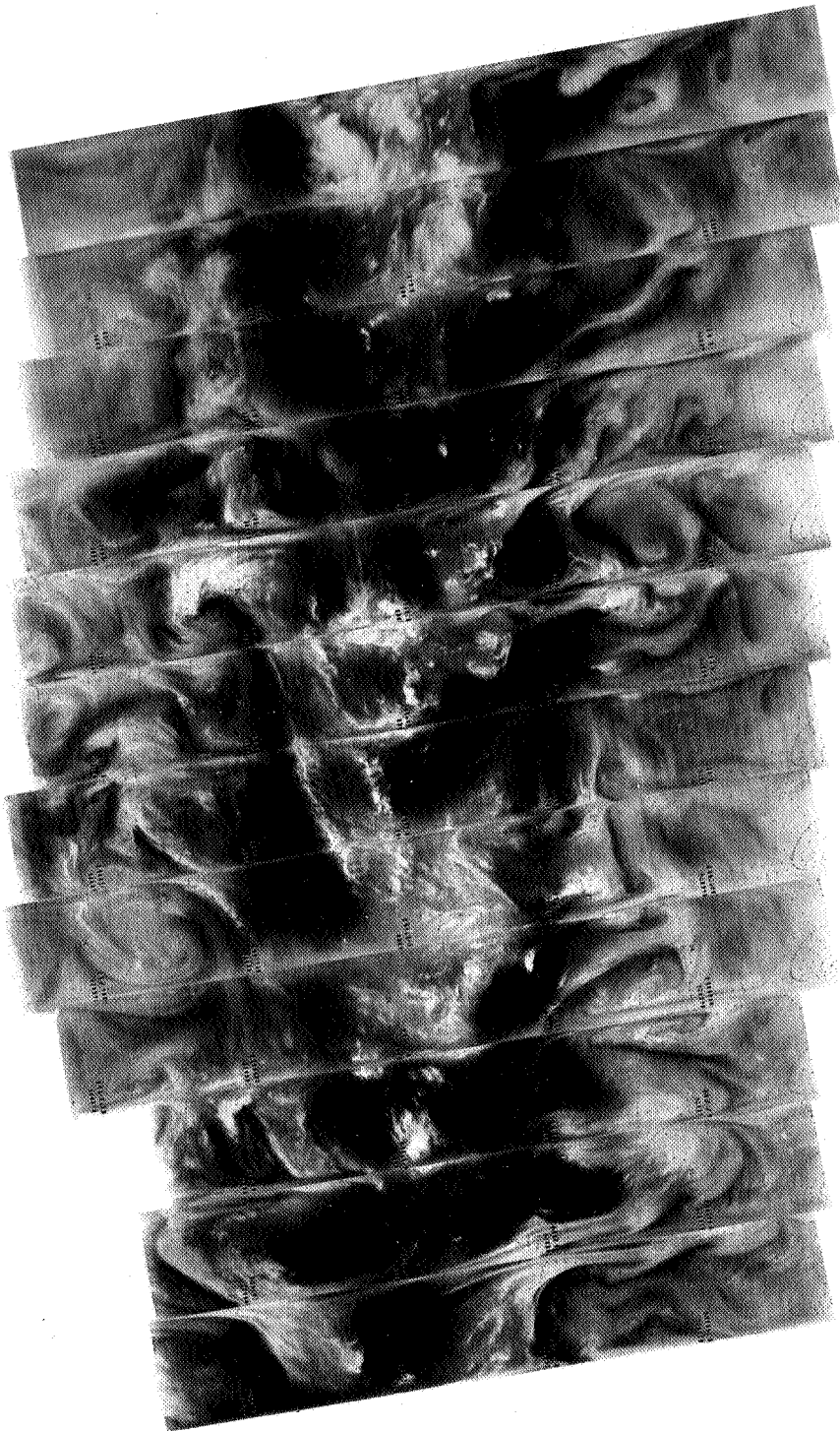
6157 6156 6155 6154 6153 6152 6151 6150 6149 6148 6147 6146 6145 6144

14 MARCH 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



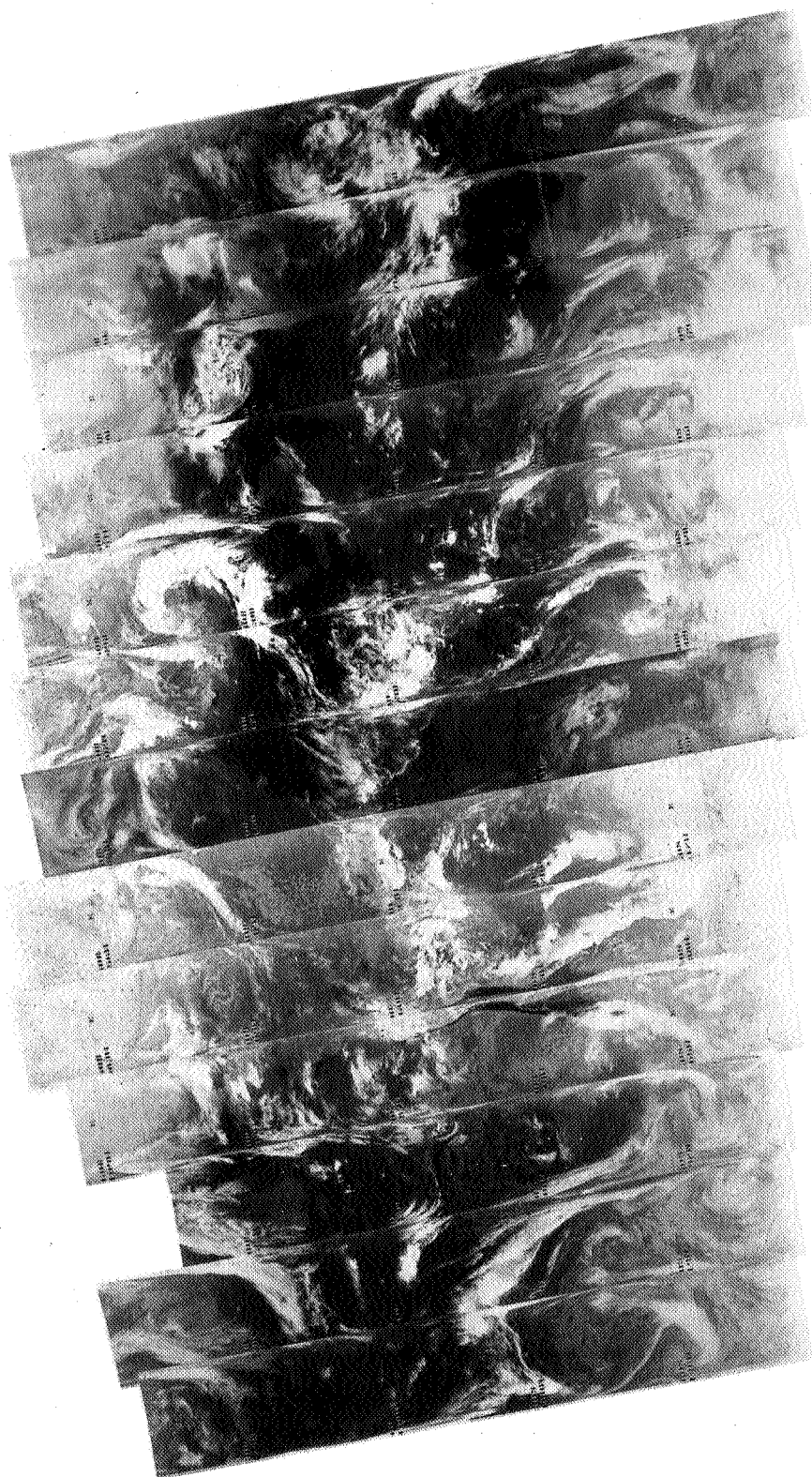
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14 MARCH 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



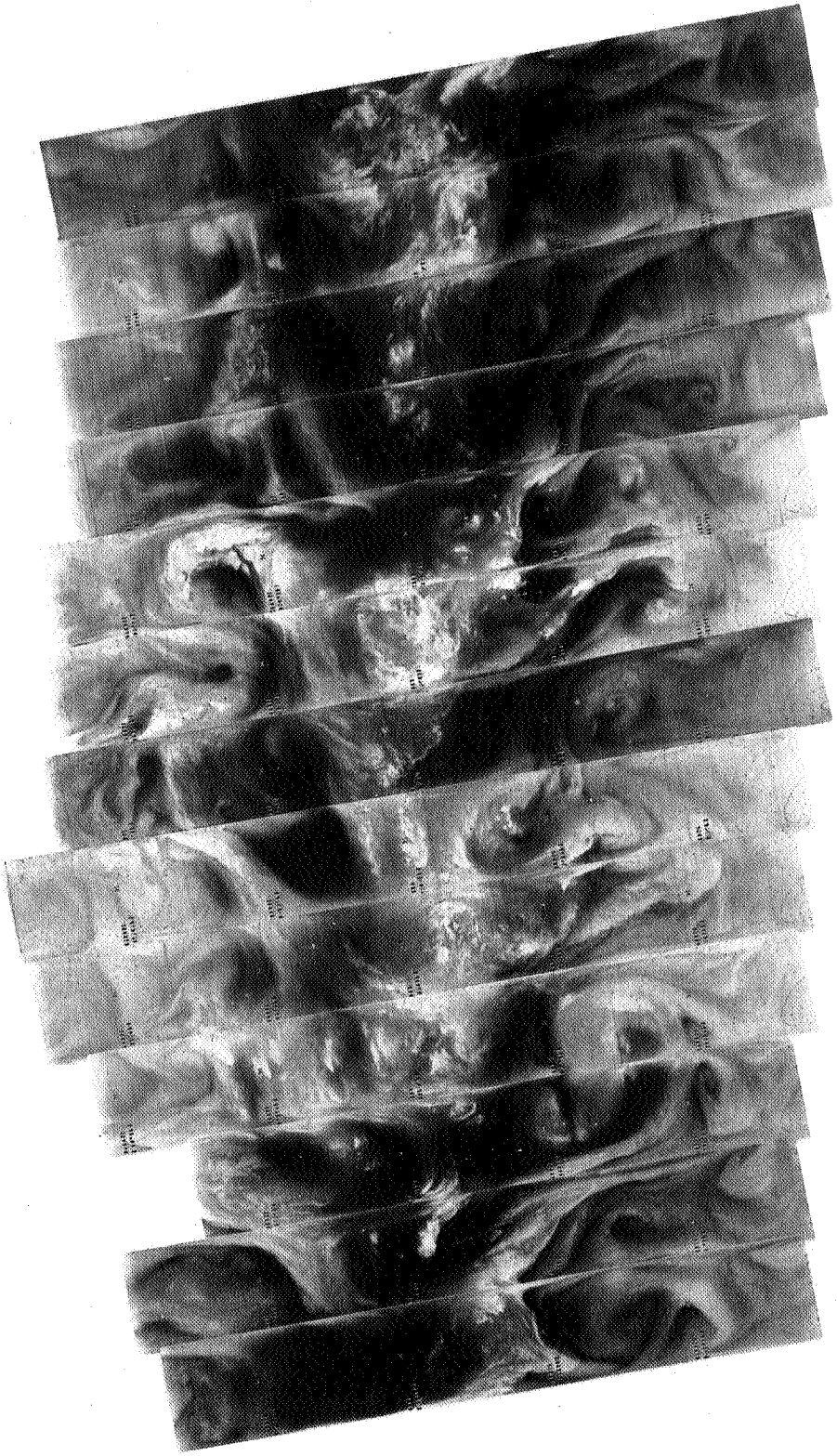
6170 6169 6168 6167 6166 6165 6164 6163 6162 6161 6160 6159 6158

15 MARCH 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



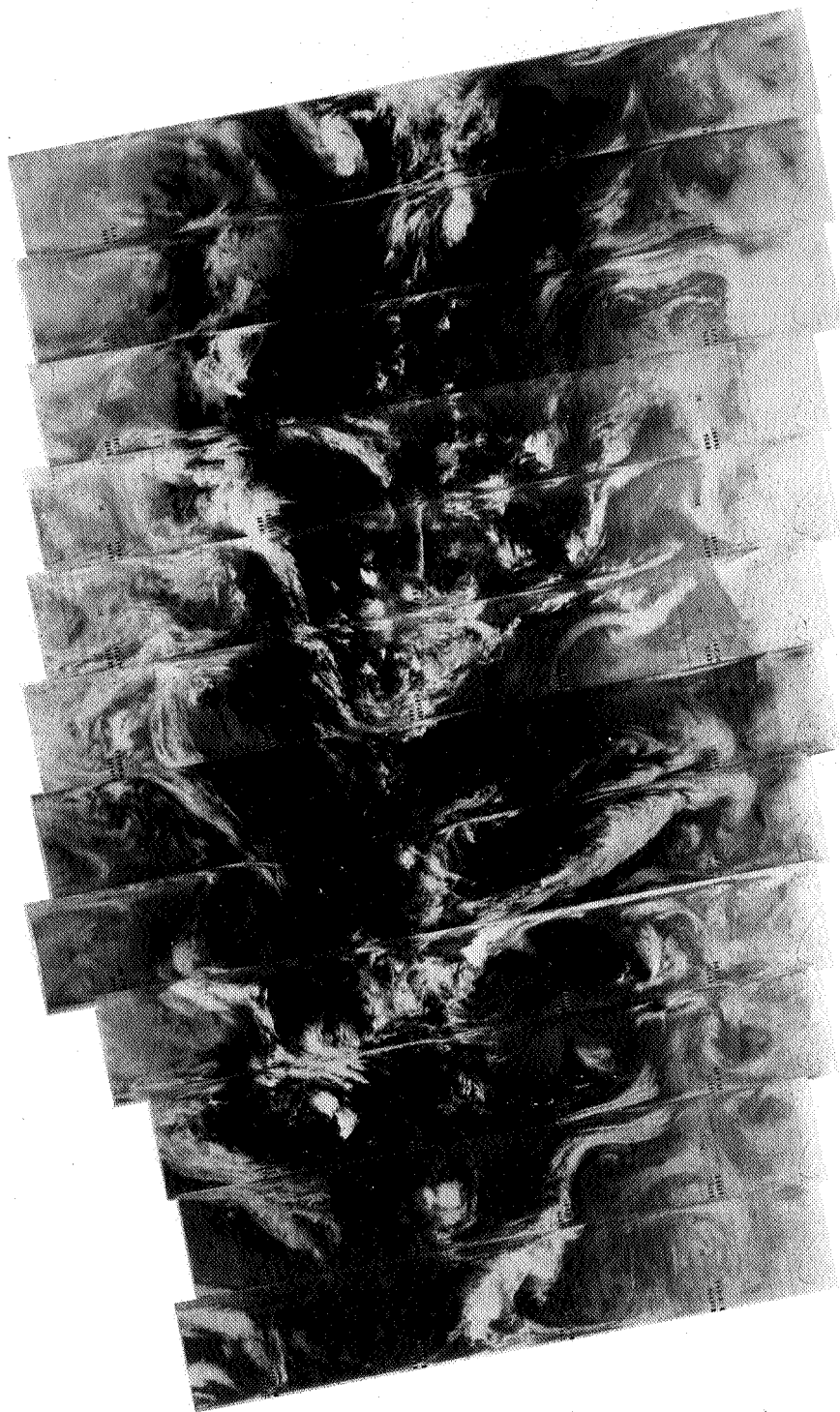
6170 6169 6168 6167 6166 6165 6164 6163 6162 6161 6160 6159 6158

15 MARCH 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

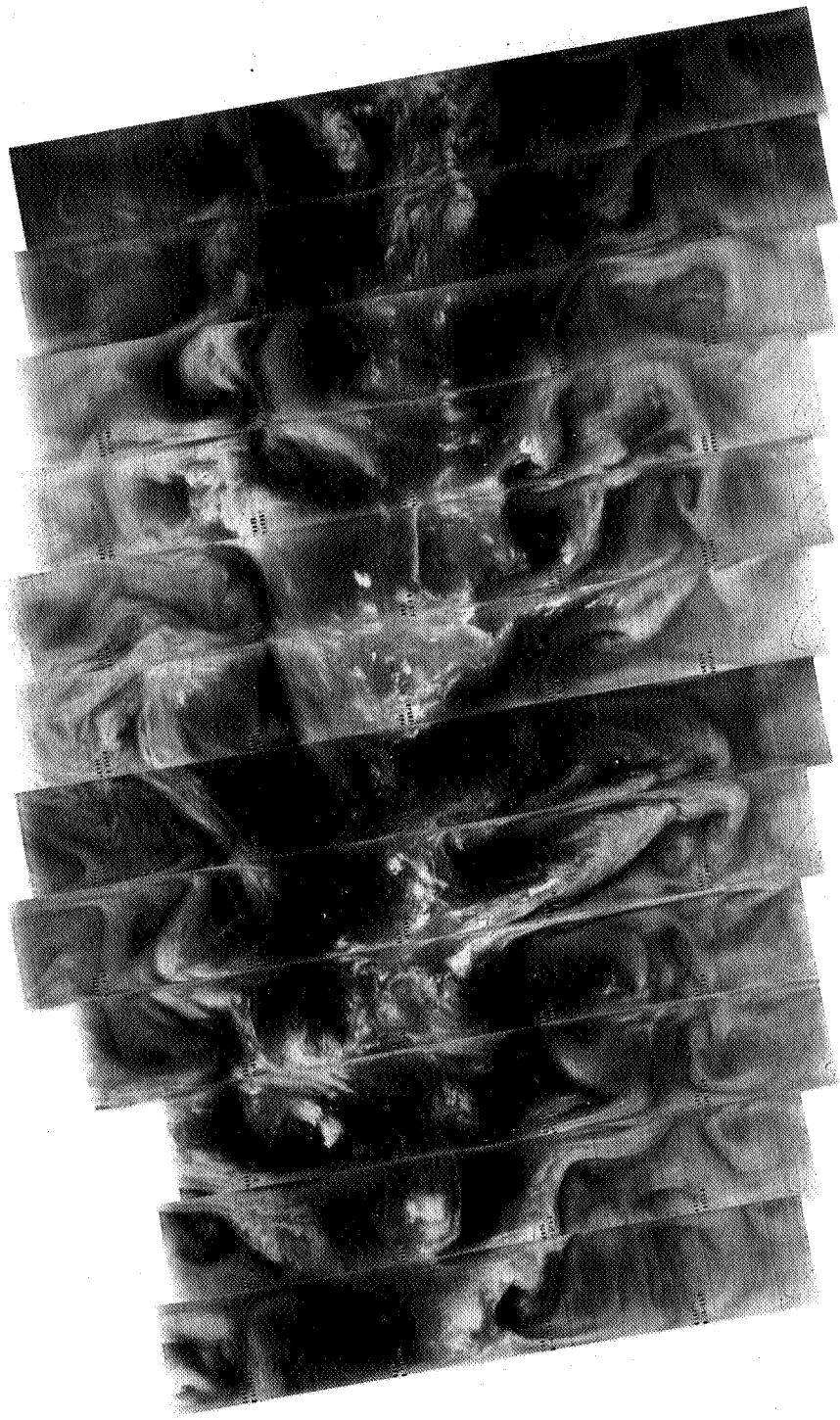
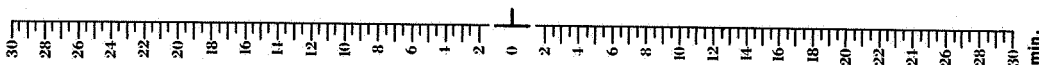


6184 6183 6182 6181 6180 6179 6178 6177 6176 6175 6174 6173 6172 6171

16 MARCH 1974

11.5 μ m

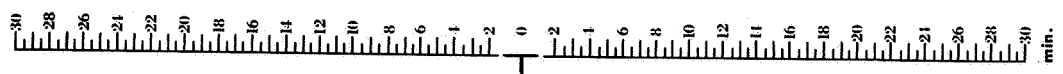
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



6184 6183 6182 6181 6180 6179 6178 6177 6176 6175 6174 6173 6172 6171

16 MARCH 1974

6.7 μ m



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

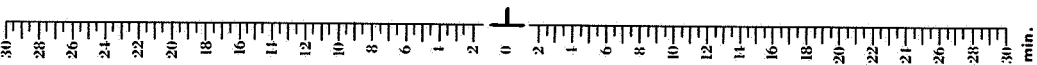


6197 6196 6195 6194 6193 6192 6191 6190 6189 6188 6187 6186 6185

17 MARCH 1974

11.5 μ m

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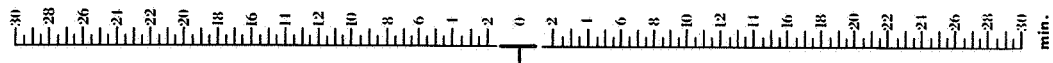
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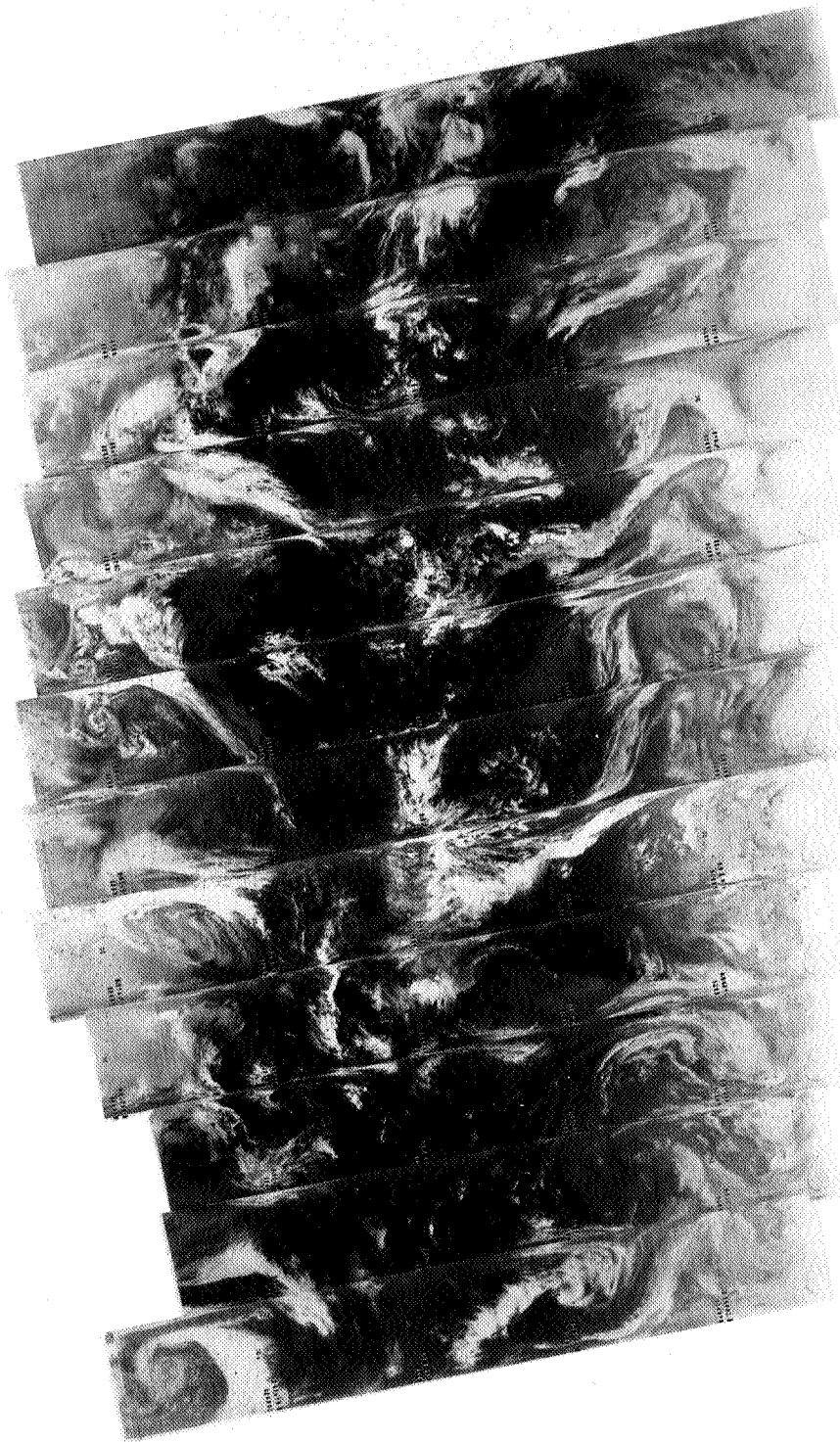
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17 MARCH 1974

6.7 μ m



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

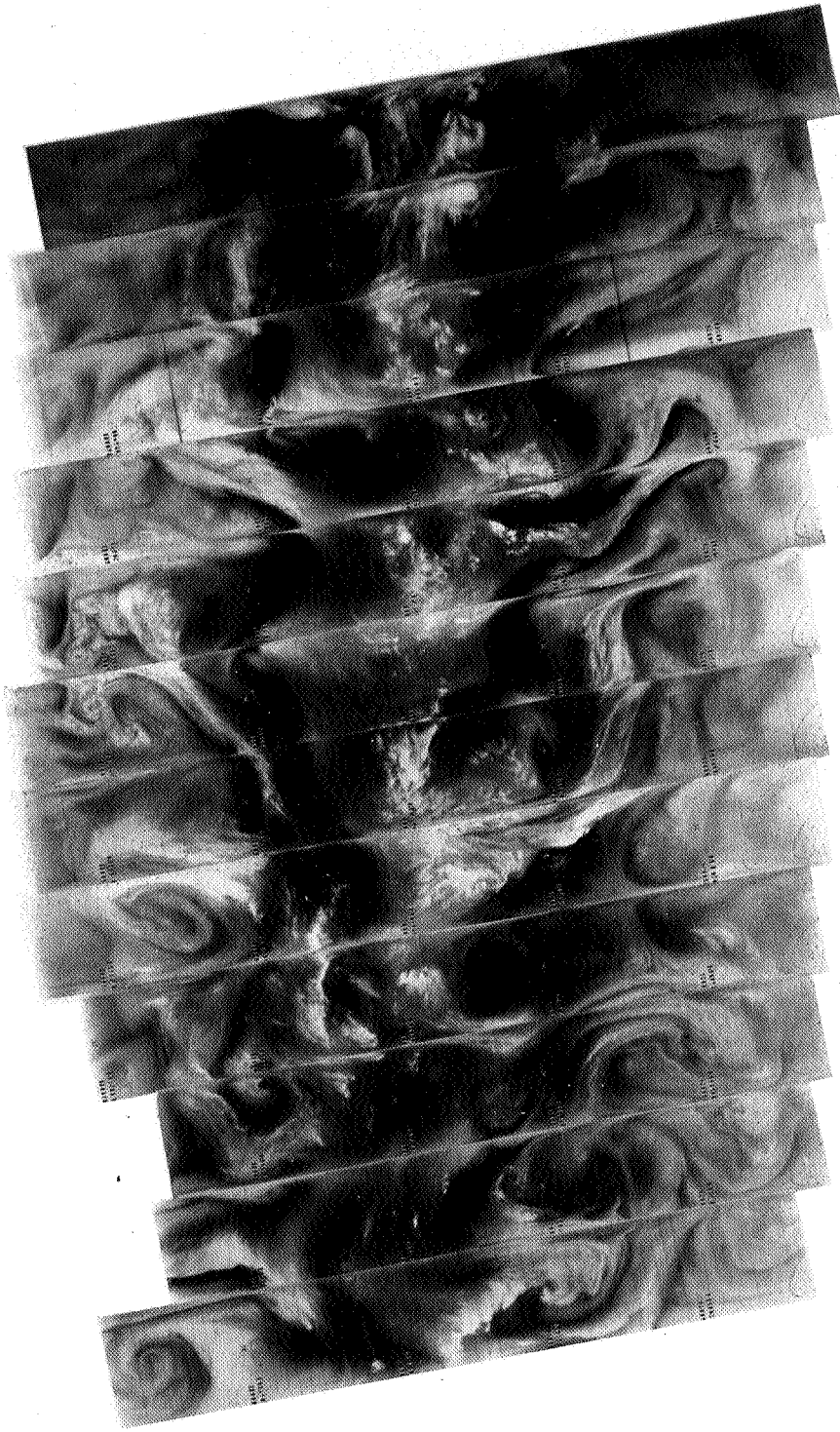
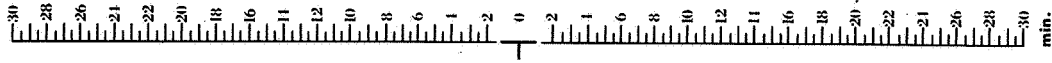


6211 6210 6209 6208 6207 6206 6205 6204 6203 6202 6201 6200 6199 6198

18 MARCH 1974

11.5 μ m

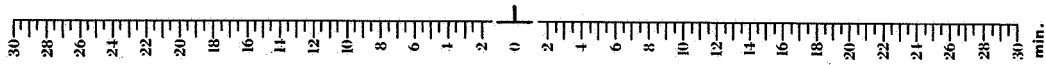
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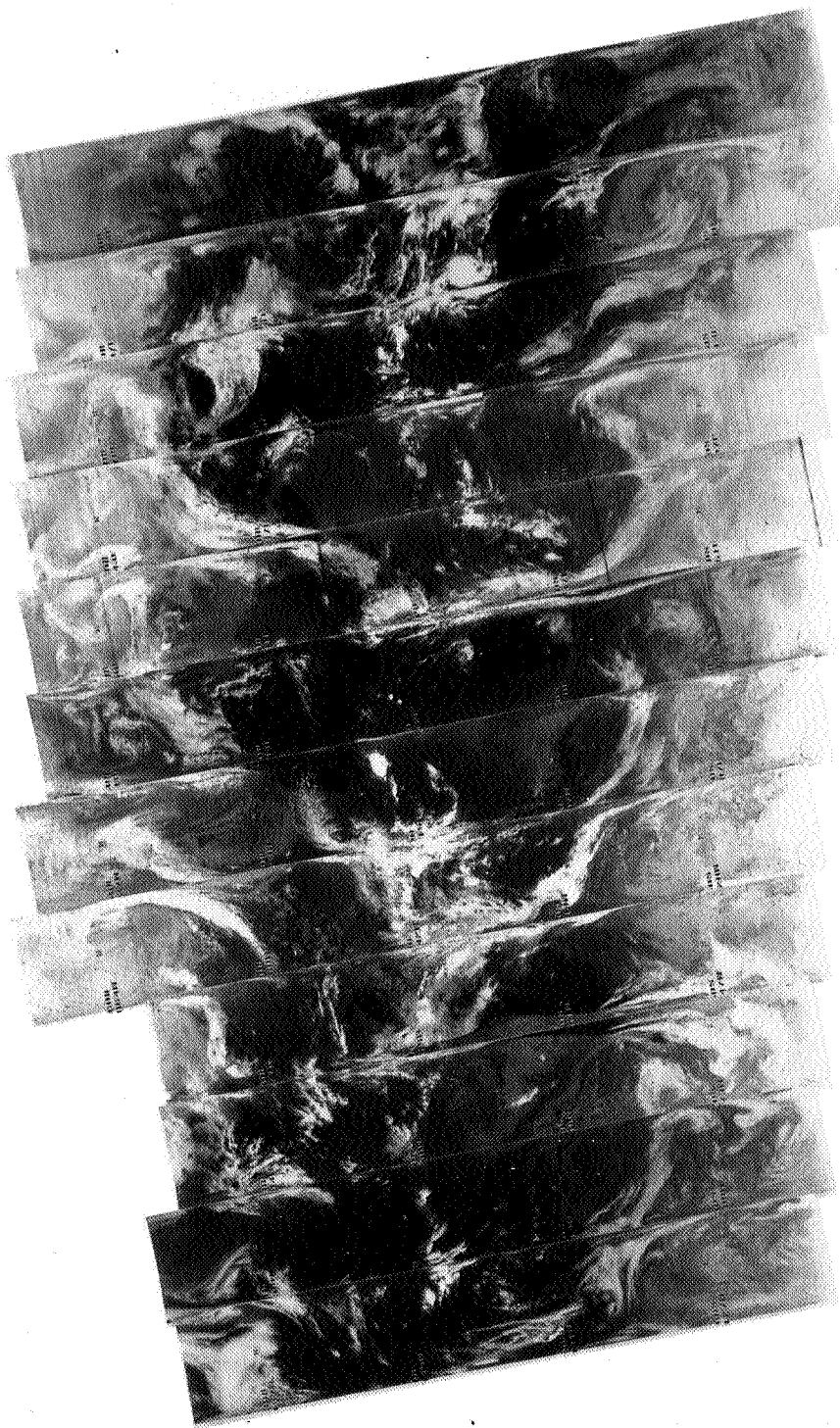
6211 6210 6209 6208 6207 6206 6205 6204 6203 6202 6201 6200 6199 6198

18 MARCH 1974

6.7 μ m



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



6224 6223 6222 6221 6220 6219 6218 6217 6216 6215 6214 6213 6212

19 MARCH 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



6224 6223 6222 6221 6220 6219 6218 6217 6216 6215 6214 6213 6212

19 MARCH 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



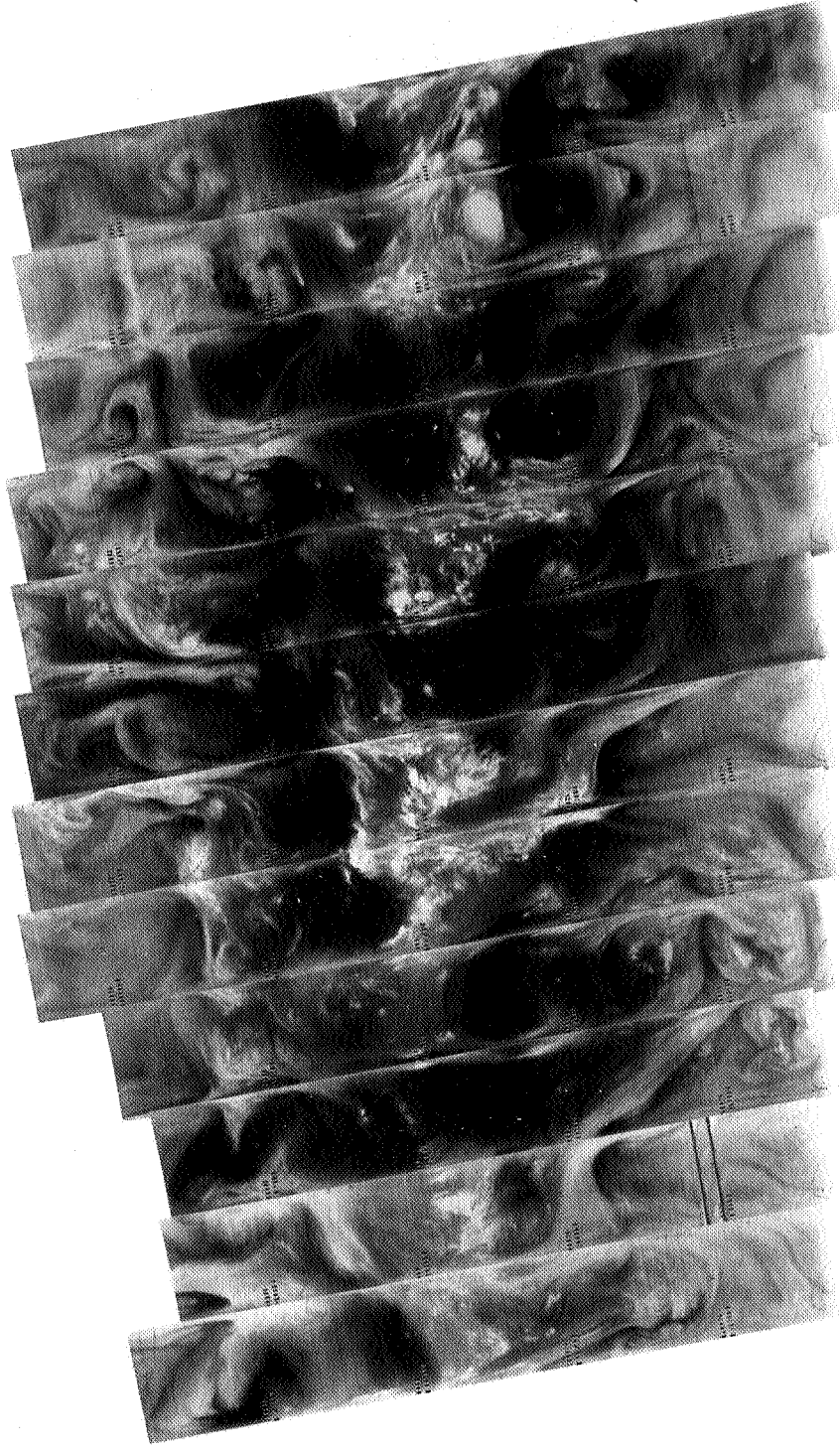
6237 6236 6235 6234 6233 6232 6231 6230 6229 6228 6227 6226 6225

20 MARCH 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



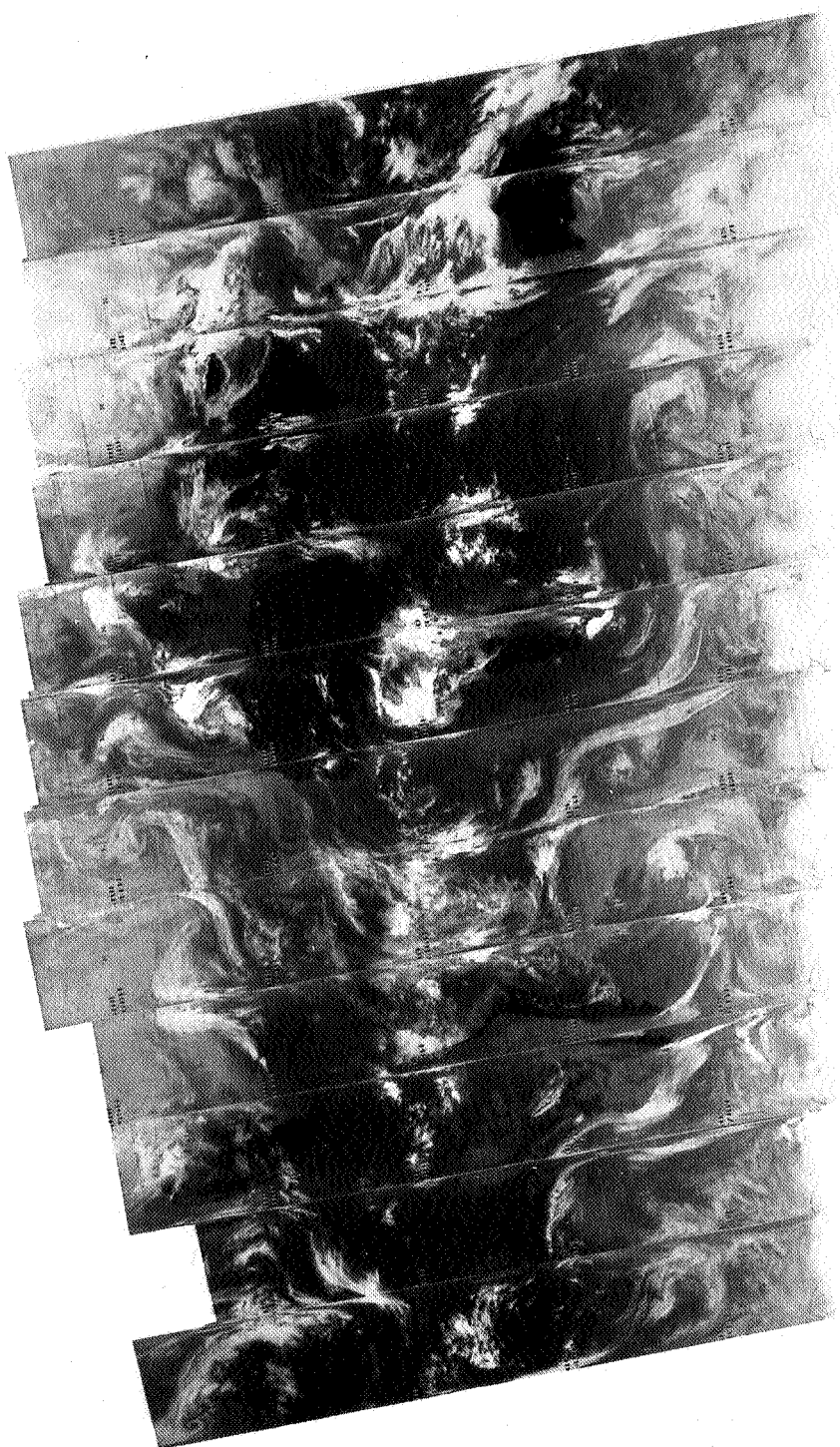
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20 MARCH 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



6238 6239 6240 6241 6242 6243 6244 6245 6246 6247 6248 6249 6250 6251

21 MARCH 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



6251 6250 6249 6248 6247 6246 6245 6244 6243 6242 6241 6240 6239 6238

21 MARCH 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



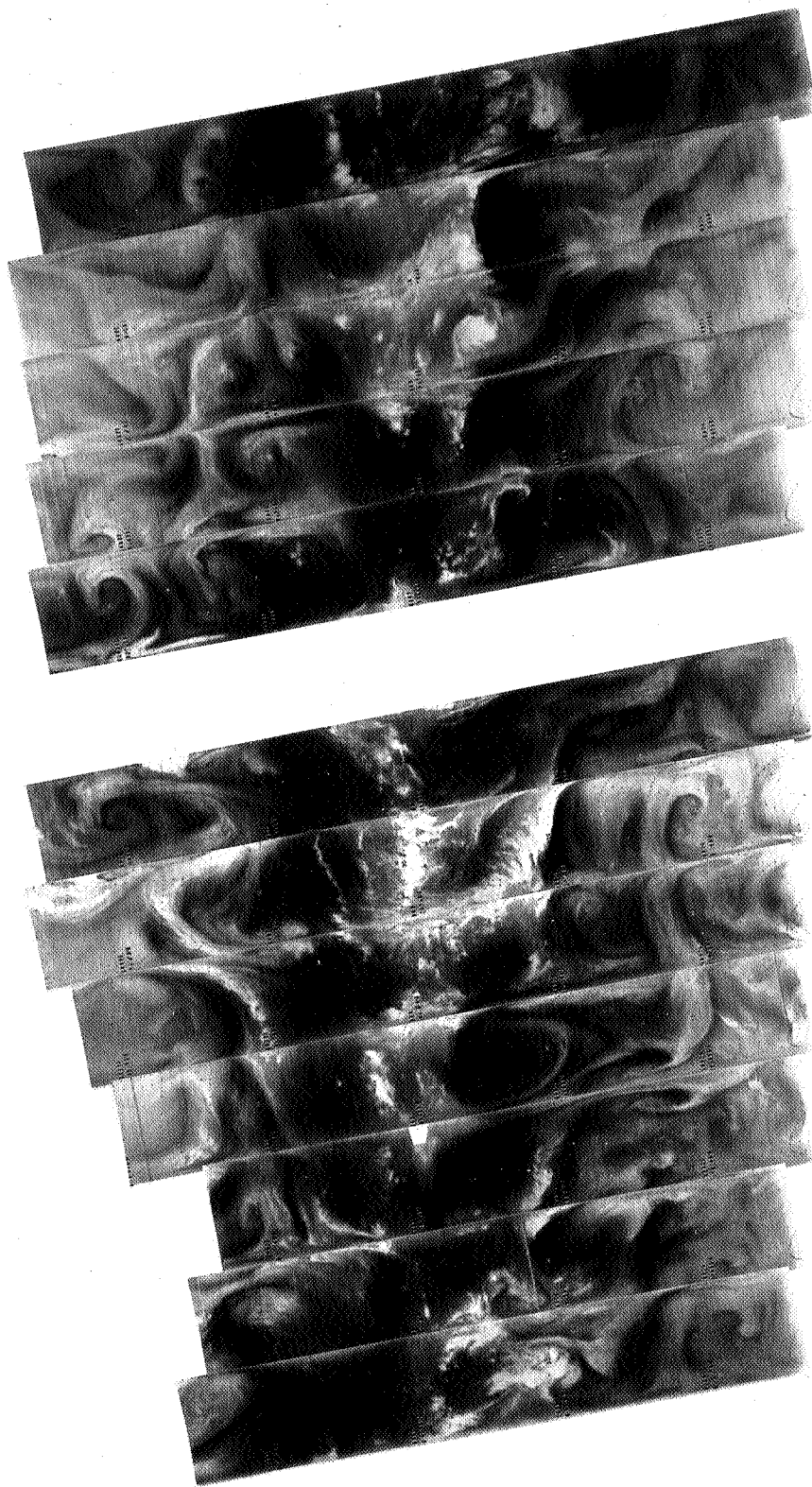
6264 6263 6262 6261 6260 6259 6258 6257 6256 6255 6254 6253 6252

22 MARCH 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



6264 6263 6262 6261 6260 6259 6258 6257 6256 6255 6254 6253 6252

22 MARCH 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



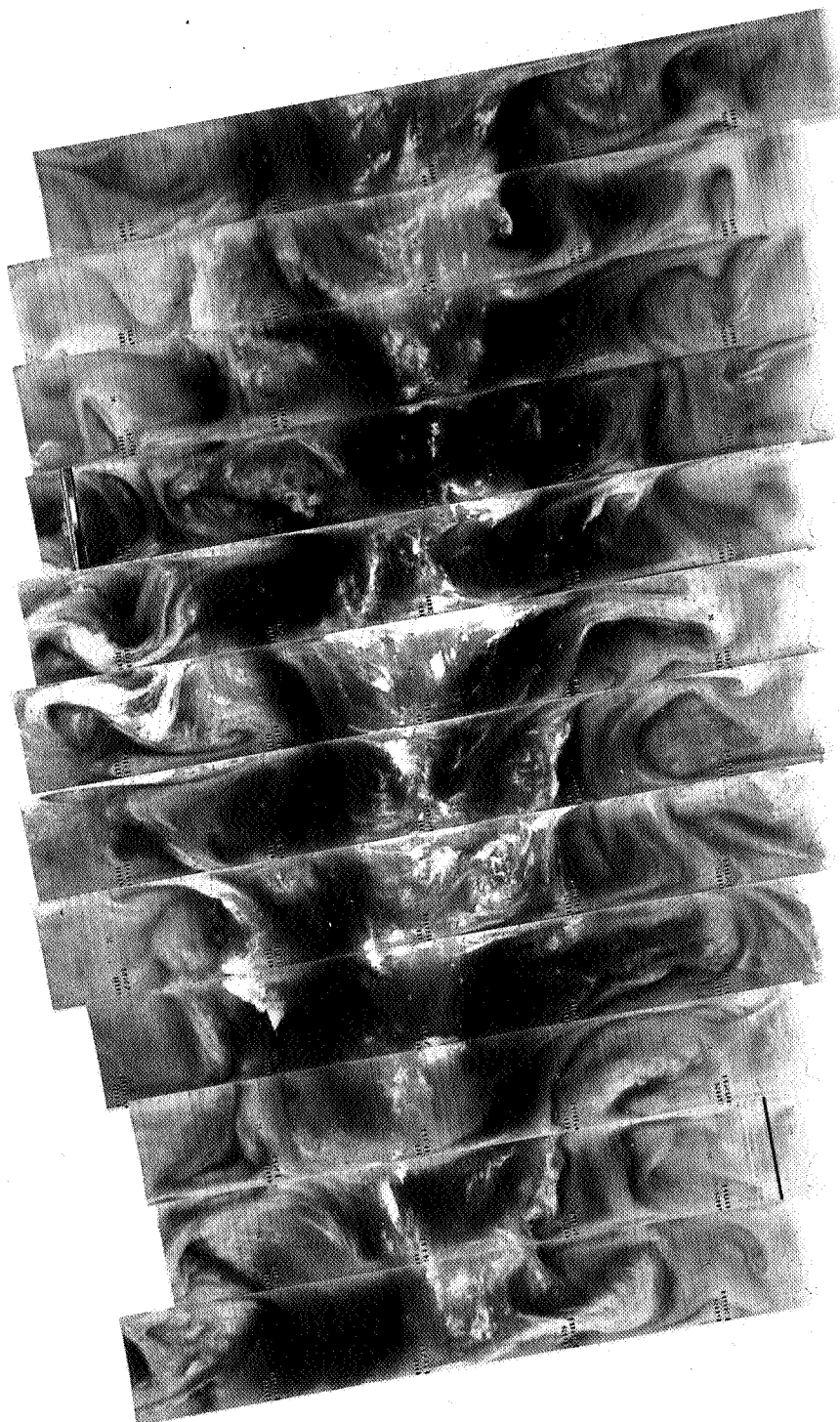
6278 6277 6276 6275 6274 6273 6272 6271 6270 6269 6268 6267 6266 6265

23 MARCH 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



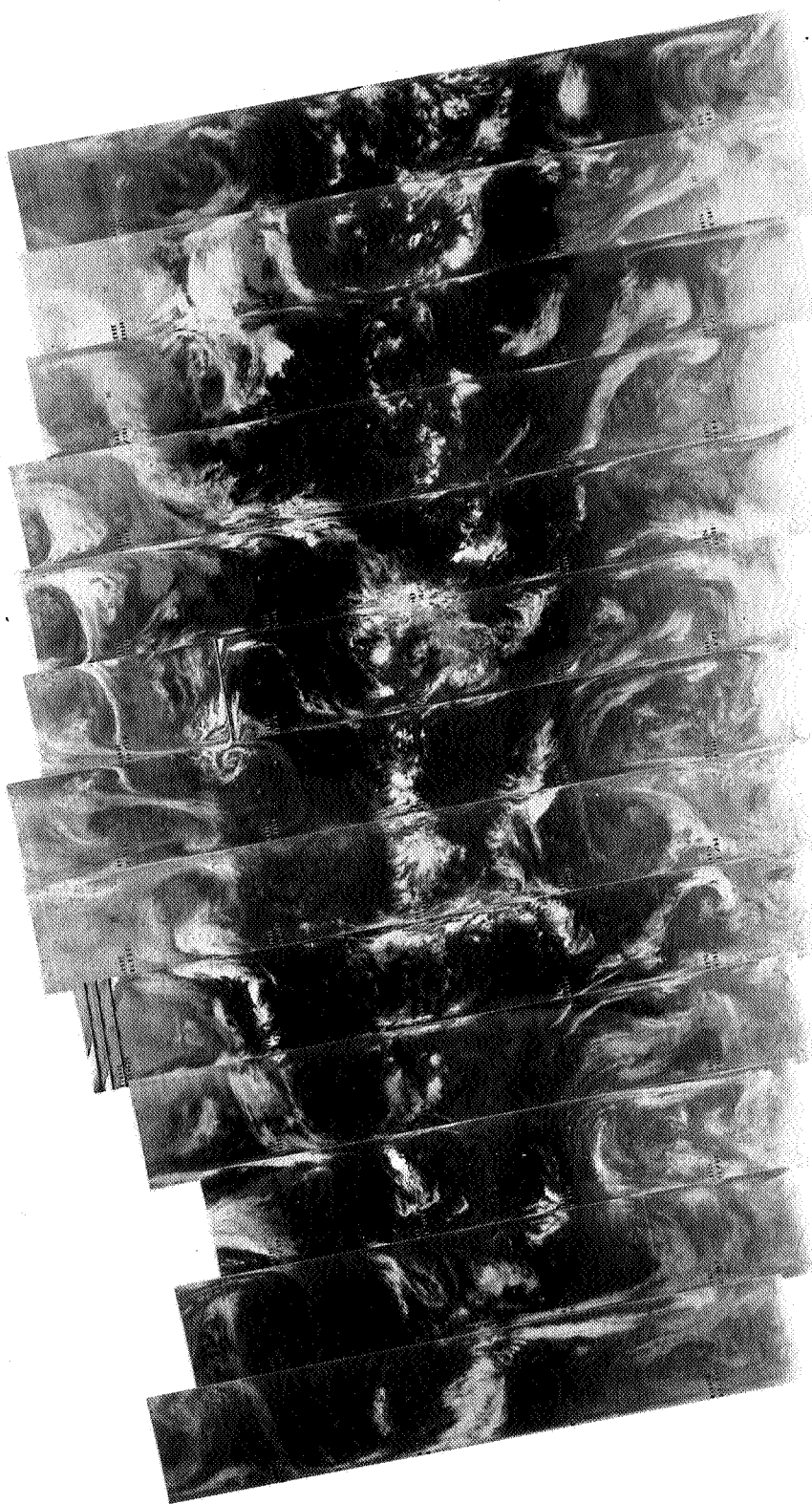
6278 6277 6276 6275 6274 6273 6272 6271 6270 6269 6268 6267 6266 6265

23 MARCH 1974

6.7 μm

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



6291 6290 6289 6288 6287 6286 6285 6284 6283 6282 6281 6280 6279

24 MARCH 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



6291 6290 6289 6288 6287 6286 6285 6284 6283 6282 6281 6280 6279

24 MARCH 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



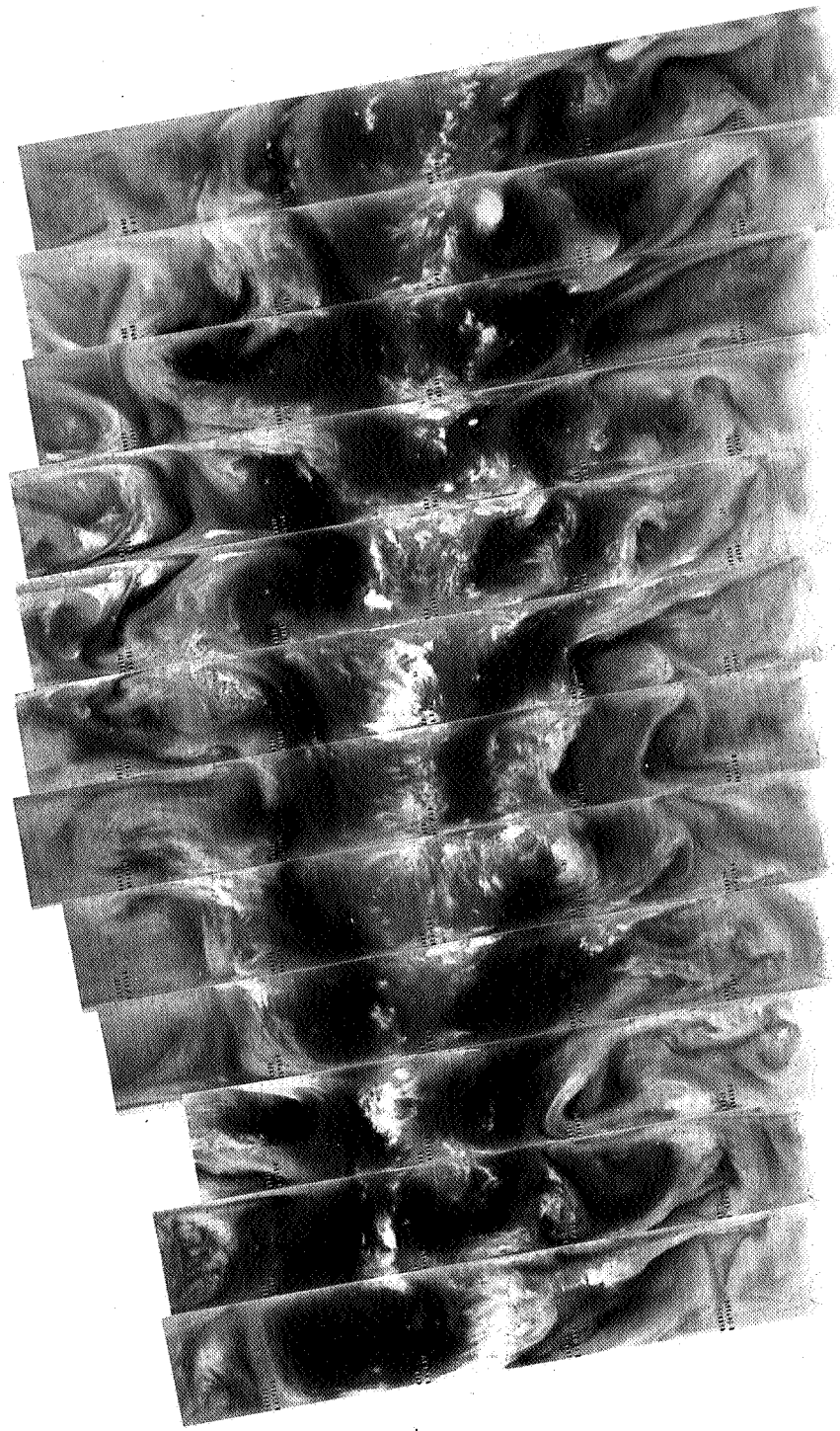
6304 6303 6302 6301 6300 6299 6298 6297 6296 6295 6294 6293 6292

25 MARCH 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



6304 6303 6302 6301 6300 6299 6298 6297 6296 6295 6294 6293 6292

25 MARCH 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



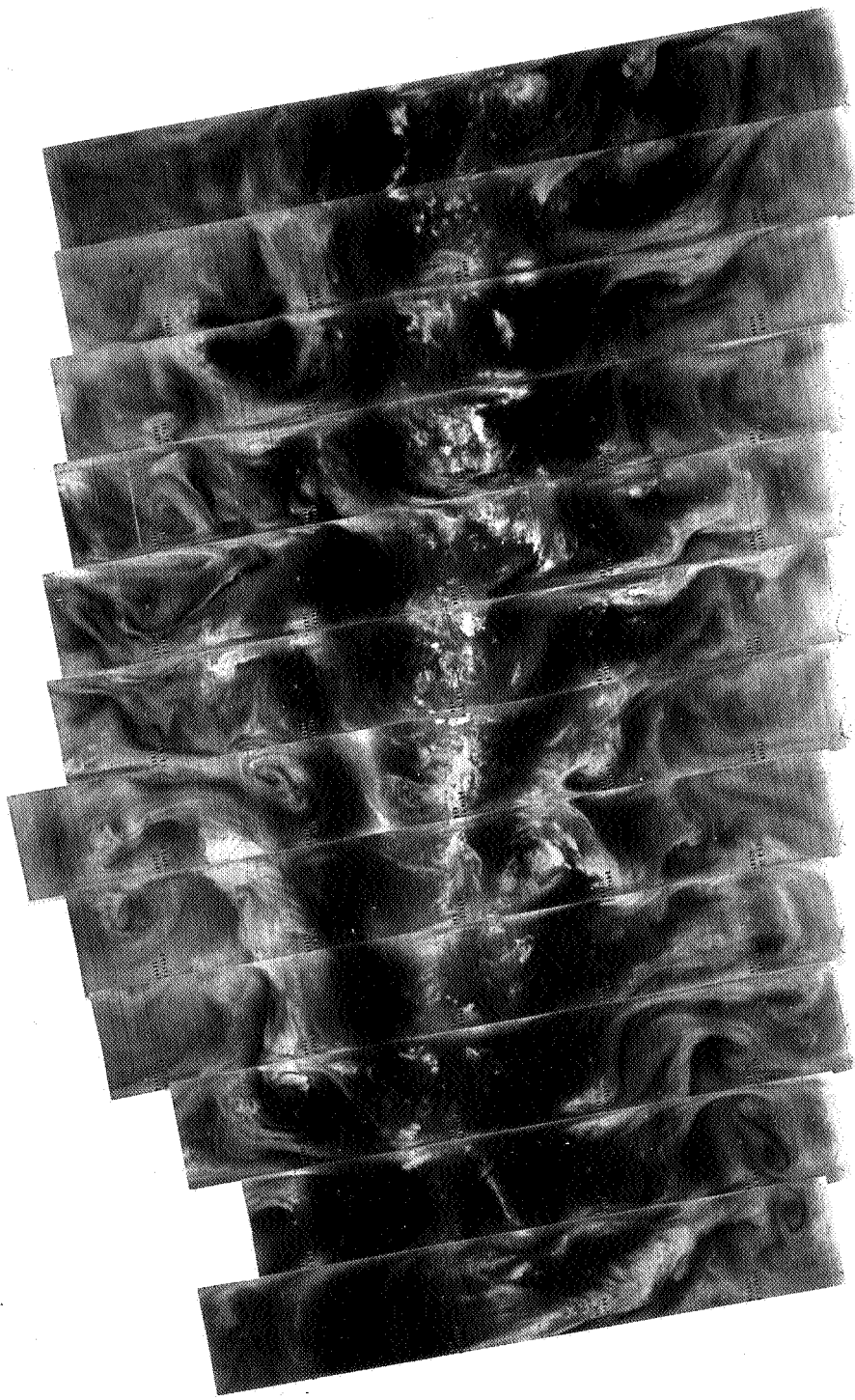
6318 6317 6316 6315 6314 6313 6312 6311 6310 6309 6308 6307 6306 6305

26 MARCH 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



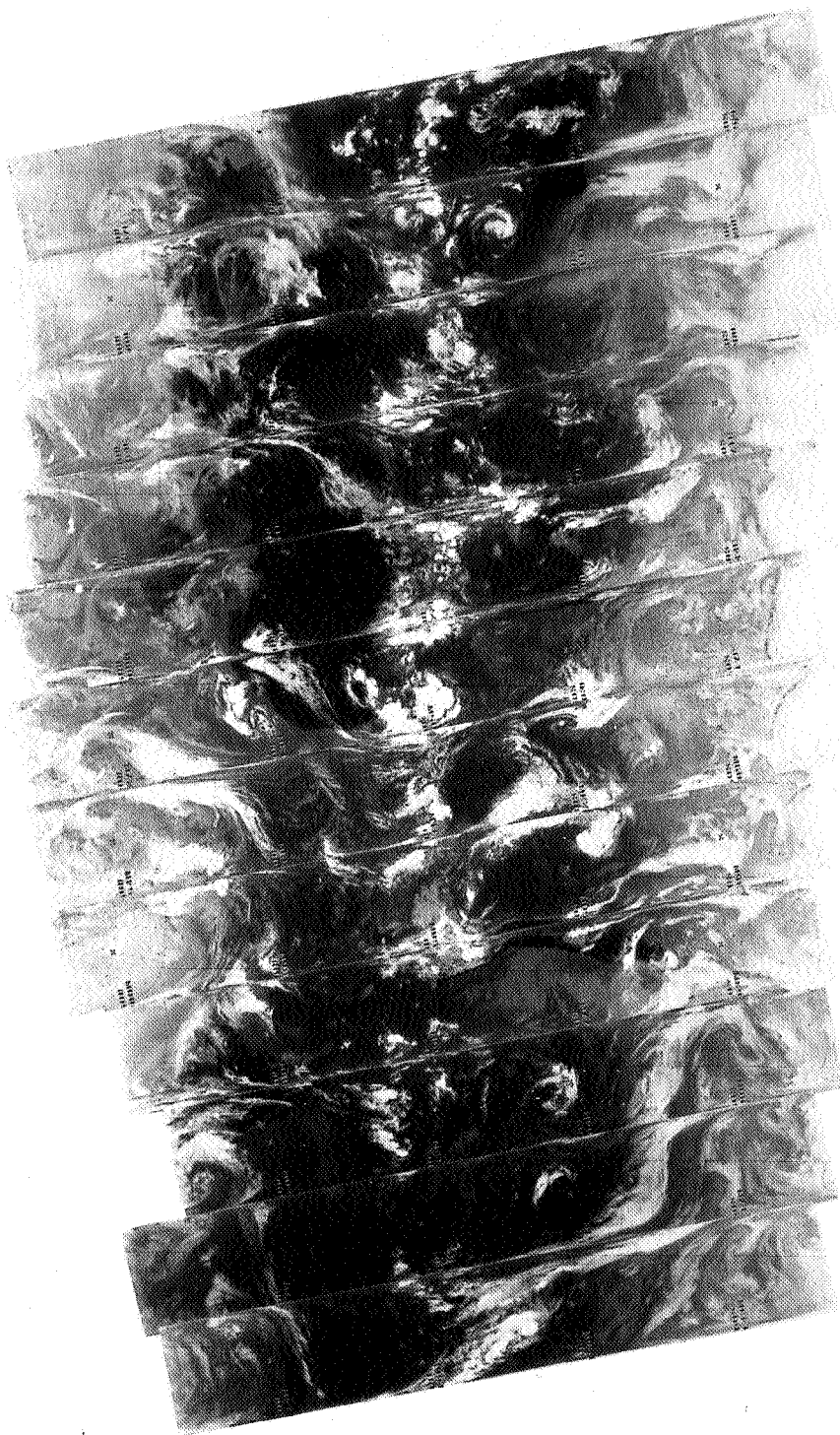
6318 6317 6316 6315 6314 6313 6312 6311 6310 6309 6308 6307 6306 6305

26 MARCH 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



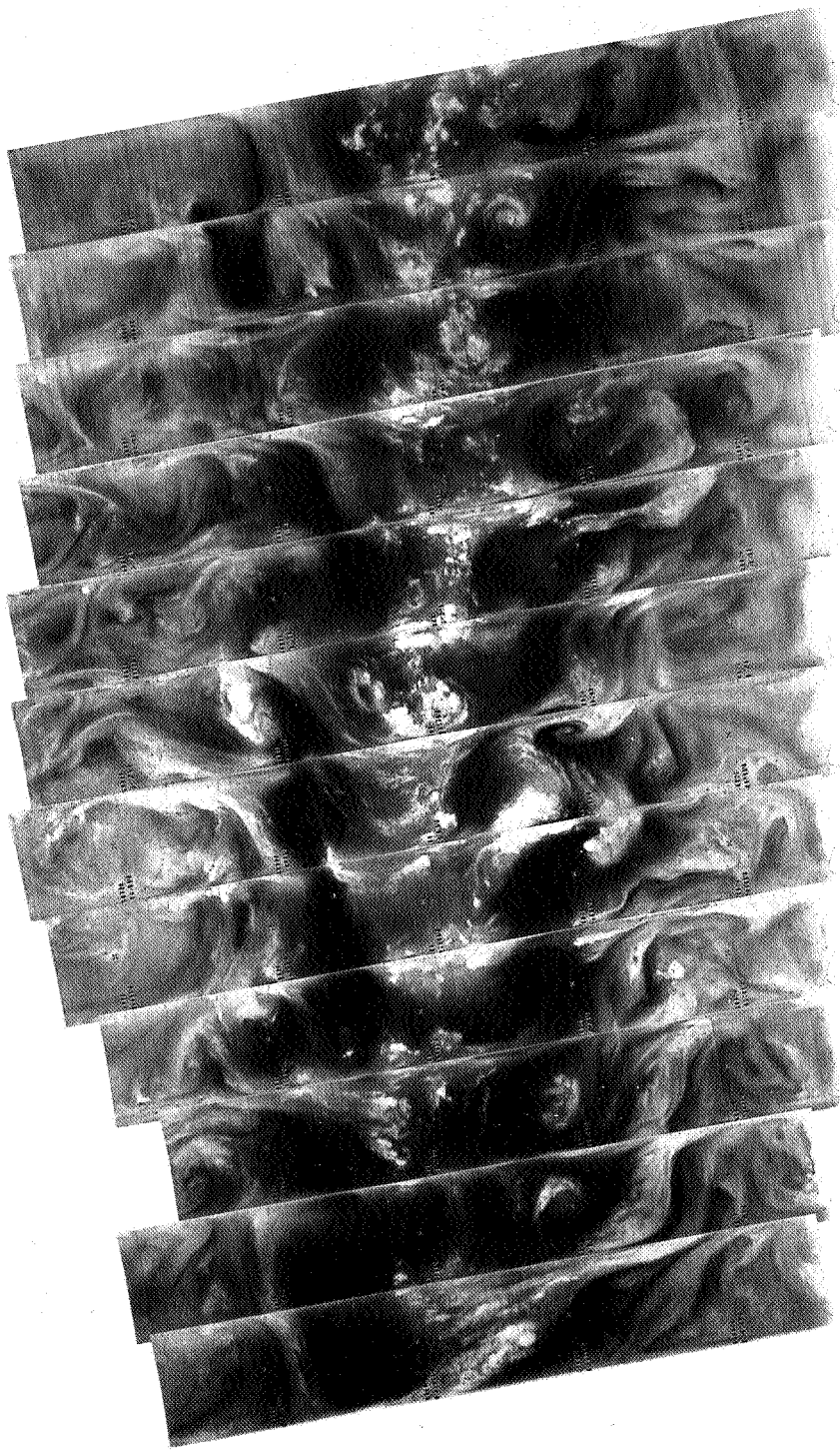
6331 6330 6329 6328 6327 6326 6325 6324 6323 6322 6321 6320 6319

27 MARCH 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



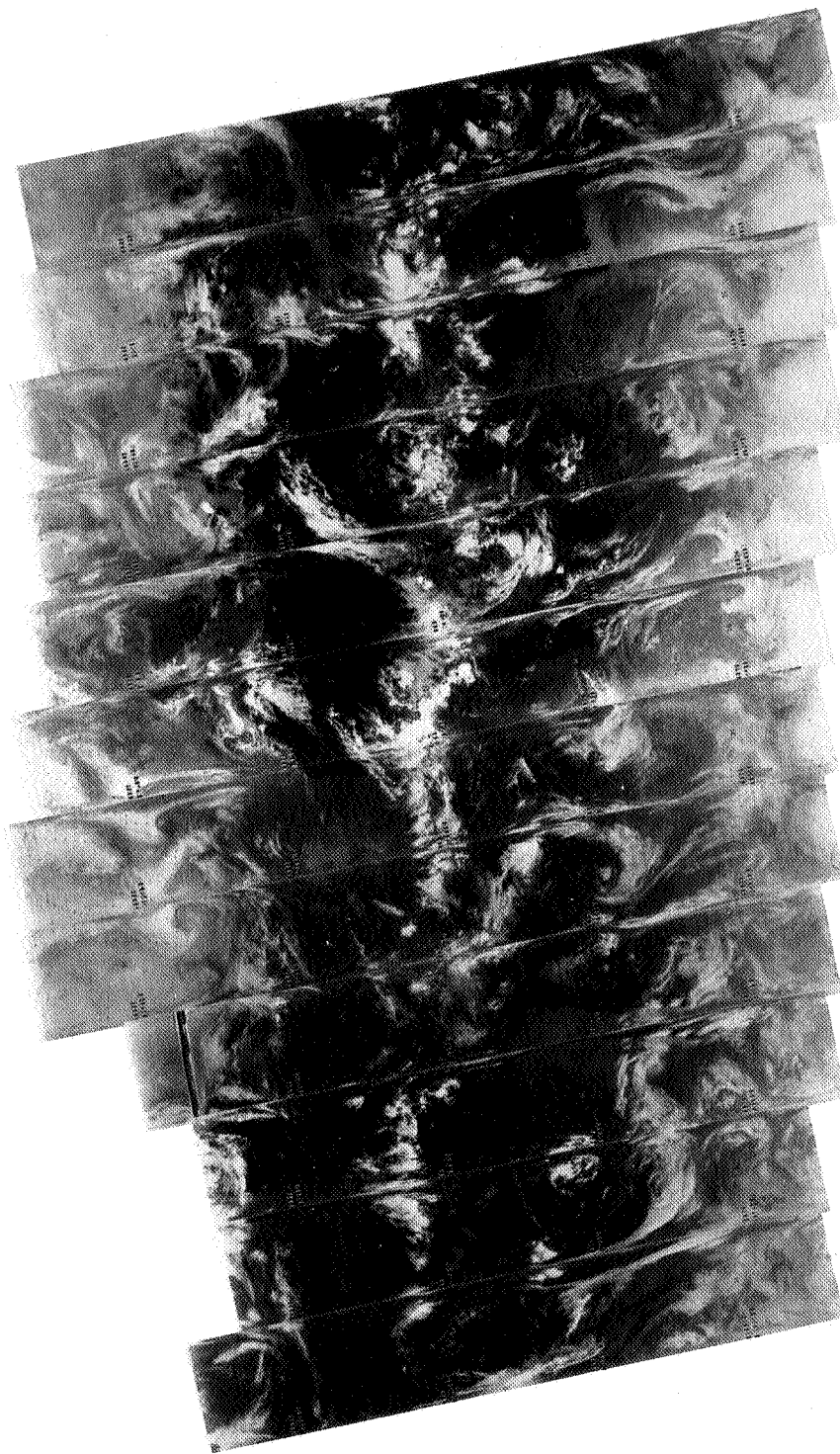
6331 6330 6329 6328 6327 6326 6325 6324 6323 6322 6321 6320 6319

27 MARCH 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



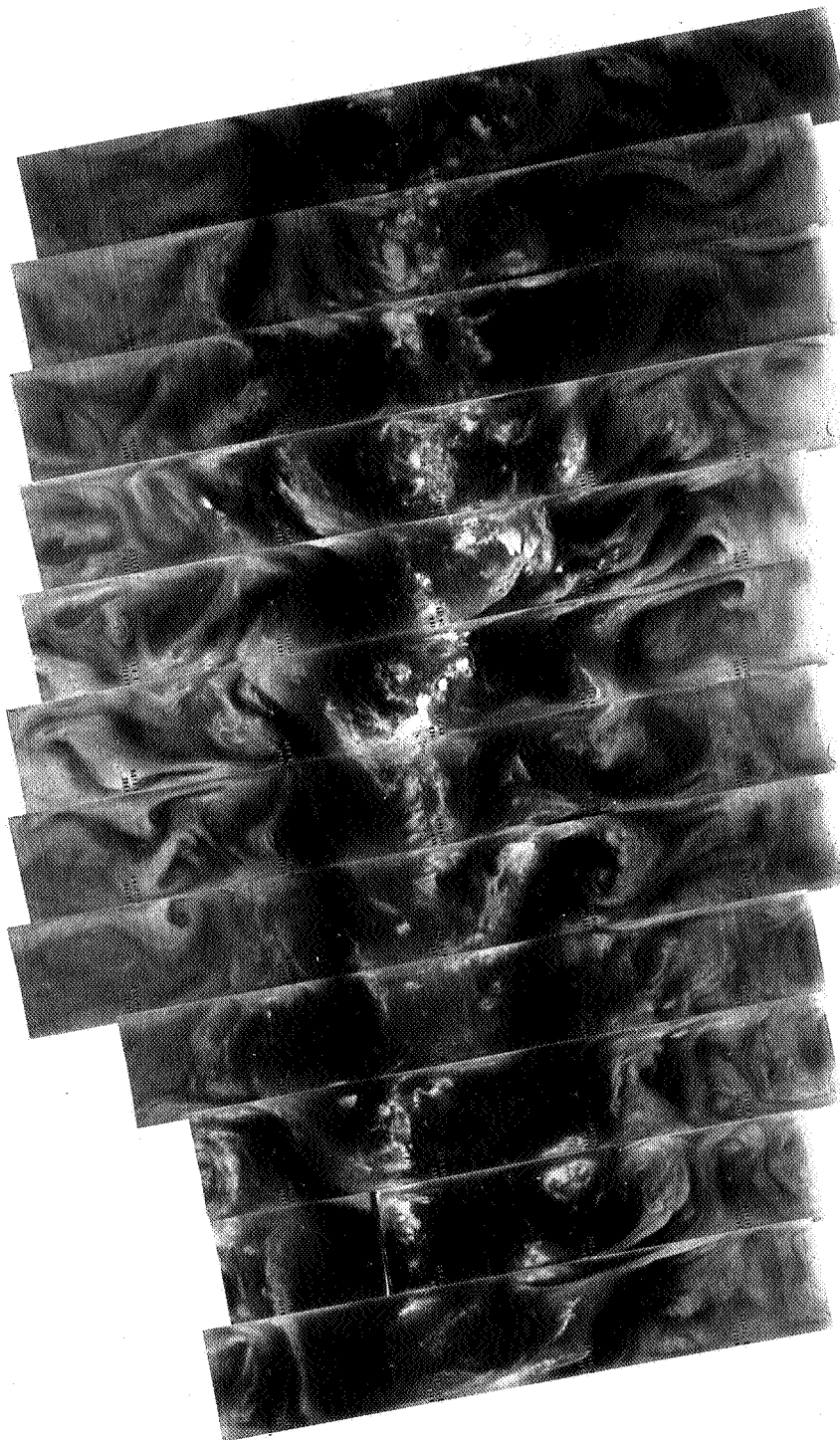
6332 6333 6334 6335 6336 6337 6338 6339 6340 6341 6342 6343 6344 6345

28 MARCH 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



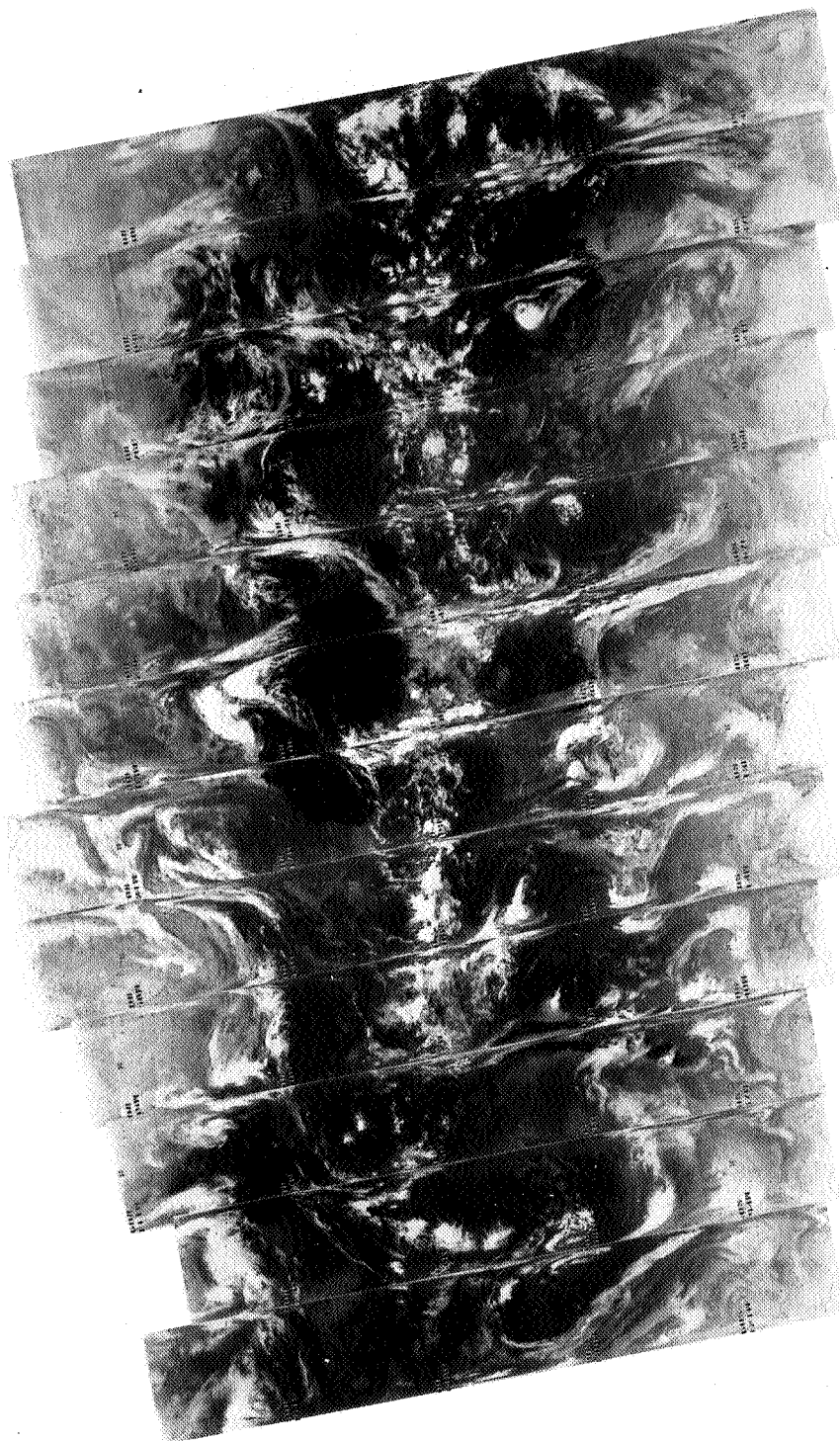
6345 6344 6343 6342 6341 6340 6339 6338 6337 6336 6335 6334 6333 6332

28 MARCH 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

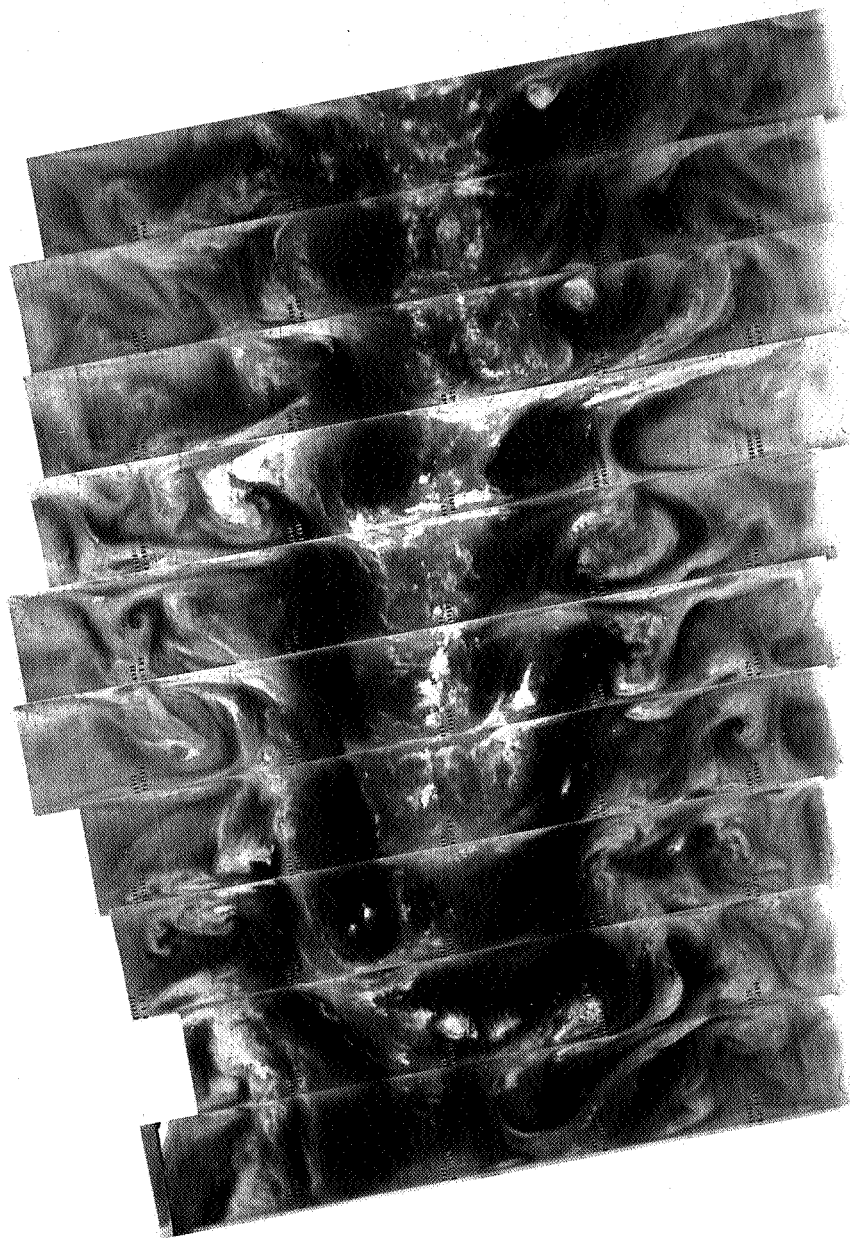
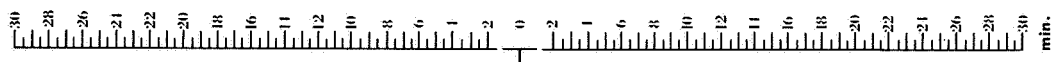


6358 6357 6356 6355 6354 6353 6352 6351 6350 6349 6348 6347 6346

29 MARCH 1974

11.5 μ m

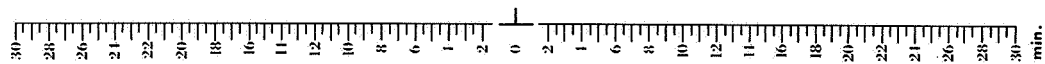
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



6358 6357 6356 6355 6354 6353 6352 6351 6350 6349 6348 6347 6346

29 MARCH 1974

6.7 μm



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



6359

6360

6361

6362

6363

6364

6365

6366

6367

6368

6369

6370

6371

6372

30 MARCH 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



6372 6371 6370 6369 6368 6367 6366 6365 6364 6363 6362 6361 6360 6359

30 MARCH 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



6385 6384 6383 6382 6381 6380 6379 6378 6377 6376 6375 6374 6373

31 MARCH 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



6385 6384 6383 6382 6381 6380 6379 6378 6377 6376 6375 6374 6373

31 MARCH 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

SECTION 5

CORRECTIONS TO THE NIMBUS 5 USER'S GUIDE

This section presents all corrections or additions to The Nimbus 5 User's Guide which now are known to be necessary. If additional corrections are required, they will appear in a subsequent catalog. All previous corrections will be carried forward cumulatively into each new catalog.

5.1 THIR Corrections to the User's Guide

Table 5-1
(First presented in Volume 1)

This table replaces Table 2-3 (page 31) in The Nimbus 5 User's Guide.

Table 2-3

THIR Output Voltages versus Equivalent Blackbody Temperatures at
Different Bolometer Temperatures for the 11.5 μm Channel

		Bolometer Temperature ($^{\circ}\text{C}$)				
		0	10	20	30	40
Blackbody Temperature ($^{\circ}\text{K}$)	0*	-0.405	-0.407	-0.413	-0.421	-0.425
	180	-0.618	-0.617	-0.617	-0.617	-0.606
	190	-0.711	-0.709	-0.706	-0.702	-0.685
	200	-0.829	-0.825	-0.820	-0.811	-0.786
	210	-0.976	-0.970	-0.961	-0.946	-0.911
	220	-1.153	-1.144	-1.130	-1.109	-1.062
	230	-1.363	-1.351	-1.332	-1.302	-1.240
	240	-1.606	-1.591	-1.565	-1.526	-1.448
	250	-1.886	-1.867	-1.834	-1.783	-1.686
	260	-2.202	-2.178	-2.137	-2.074	-1.955
	270	-2.555	-2.526	-2.476	-2.399	-2.256
	280	-2.946	-2.911	-2.851	-2.759	-2.589
	290	-3.375	-3.334	-3.262	-3.153	-2.954
	300	-3.841	-3.793	-3.709	-3.582	-3.352
	310	-4.345	-4.289	-4.192	-4.045	-3.781
	320	-4.886	-4.822	-4.711	-4.543	-4.241
	330	-5.463	-5.391	-5.264	-5.074	-4.733

*Space level

Table 5-2
(First presented in Volume 1)

This table replaces Table 2-4 (page 32) in The Nimbus 5 User's Guide.

Table 2-4

THIR Output Voltages versus Equivalent Blackbody Temperatures at
Different Bolometer Temperatures for the 6.7 μm Channel

		Bolometer Temperature ($^{\circ}\text{C}$)				
		0	10	20	30	40
Blackbody Temperature ($^{\circ}\text{K}$)	0*	-0.507	-0.518	-0.532	-0.556	-0.576
	180	-0.607	-0.618	-0.632	-0.655	-0.674
	185	-0.644	-0.654	-0.669	-0.692	-0.710
	190	-0.692	-0.702	-0.716	-0.739	-0.756
	195	-0.752	-0.762	-0.776	-0.798	-0.814
	200	-0.827	-0.838	-0.851	-0.873	-0.888
	205	-0.921	-0.931	-0.944	-0.966	-0.978
	210	-1.035	-1.045	-1.058	-1.078	-1.089
	215	-1.172	-1.182	-1.195	-1.215	-1.223
	220	-1.337	-1.347	-1.359	-1.379	-1.383
	225	-1.533	-1.543	-1.554	-1.573	-1.573
	230	-1.764	-1.774	-1.784	-1.801	-1.797
	235	-2.033	-2.043	-2.052	-2.068	-2.059
	240	-2.350	-2.355	-2.363	-2.378	-2.362
	245	-2.704	-2.714	-2.721	-2.734	-2.711
	250	-3.115	-3.125	-3.131	-3.142	-3.111
	255	-3.582	-3.592	-3.597	-3.605	-3.565
	260	-4.110	-4.119	-4.122	-4.127	-4.077
	265	-4.704	-4.714	-4.715	-4.717	-4.656
	270	-5.367	-5.378	-5.376	-5.375	-5.300

*Space level

The following information supplements that in paragraph 2.4.1.2 (page 34) in The Nimbus 5 User's Guide. (First presented in volume 5)

Beginning with orbit 3581 (4 September 1973), the ten-step gray scale will no longer be attached to each orbit of 70mm archival film. However, one gray scale will

be attached at the beginning and end of each reel of archival film. A user who requests THIR imagery recorded after orbit 3581 will be furnished a gray scale wedge only if he specifically requests it.

5.2 SCMR Corrections to the User's Guide

There are no SCMR corrections to the User's Guide.

5.3 ESMR Corrections to the User's Guide (First presented in Volume 3)

The following information replaces the next to the last paragraph on page 103 (Section 4, 4.5) of The Nimbus 5 User's Guide.

ESMR grid print maps of calibrated brightness temperatures are available from NSSDC in three different map projections. These are: (1) Polar stereographic, (2) Mercator, and (3) Horizontal stereographic (Bull's-eye). Program options permit contouring of the grid print maps, printing of map titles, and using fewer than the full 78 beam positions.

For each map requested, the following information is needed:

- Satellite and sensor
Nimbus 5 ESMR
- Map type
 1. Polar stereographic
 2. Mercator
 3. Horizontal stereographic (Bull's-eye)
- Map scale
Scale of map in millions
- Geographic area
 1. For a Polar stereographic map specify — latitude of map perimeter, and orientation of 0° meridian line. The standard position for the 0° meridian on a northern hemisphere map is 10° clockwise below a left-right horizontal line through the map's pole.

On a southern hemisphere map, 0° meridian is 10° counterclockwise below a left-right horizontal line through the map's pole. For other orientations of the 0° meridian, the user must specify, preferably with a sketch, the orientation desired.
 2. For a Mercator map specify — latitude of upper and lower edges of map, and longitudes of left and right edges of map. Longitudes are measured west from Greenwich (0°).
 3. For a Horizontal stereographic (Bull's-eye) map specify — latitude and longitude (west from Greenwich) of map center, pseudo co-latitude of map perimeter (number of degrees of latitude from map center), and azimuth of 0° longitude line. If not specified, the azimuth will be located as it is for the Polar stereographic map.
- Calendar date of data requested

- Data orbit number(s)
- Beginning and end time (GMT) of the date for each map requested. These times are derived from information in Table 2-2 of each Nimbus 5 Data Catalog.

Optional specifications for each map are the following:

- ESMR beam parameters
The user can specify, or limit, the range of beam positions used to produce each map. If no specifications are made, beam positions 1 through 78 are used.
- Map title
For each map, the user may specify a title containing up to 70 characters.
- Contouring
Normally, maps are printed without contours. To obtain contoured maps, the user must specify a contour base (or lower temperature limit (e. g., 130°K) and a contouring interval (e. g., contour every 10°K). The contour program fills in the first contour interval above the contour base with the letter "A", the next interval is blank, the next is filled in with the letter "B", etc.

(The following was first presented in Volume 2.)

Table 4-4 of The Nimbus 5 User's Guide will not be supplied. Table 5-3 is to be used in its place.

As stated in The Nimbus 5 Data Catalog, vol. 1, the antenna properties changed after final calibration and rendered those numbers useless. The cause of the gross variations in antenna properties which were observed soon after launch has been determined to be a cross-polarized grating lobe. This finding has been confirmed through measurements on the engineering model and on the proto/flight model of the ESMR, and through theoretical calculations. The problem does not exist for the near-nadir beam positions, so those positions are unaffected. A quantitative discussion of this problem is included in the report of the Nimbus 5 ESMR Anomaly Review Committee.

An empirical calibration has been developed which removes the effect of the lobe structure and antenna loss, which vary with position, and roughly corrects for angular variations in viewing geometry. In this calibration scheme the antenna loss ratio is assumed to be 1.56 for all temperatures and beam positions, and a linear correction is applied to the data. The correction is given by:

$$T'_i = A_i T_i + B_i$$

where T'_i is the corrected brightness temperature for the i -th beam position and T_i is the brightness temperature calculated with the assumption of a constant antenna loss. A_i and B_i are empirically derived constants given in Table 5-3.

Table 5-3

Constants for Linear Correction of Brightness Temperatures
Corresponding to ESMR Beam Positions

Beam Position	A	B (°K)	Beam Position	A	B (°K)
1	1.058	4	43	1.002	-3
2	1.027	10	44	0.962	4
3	0.990	16	45	0.960	4
4	0.980	14	46	0.980	2
5	0.963	17	47	0.966	4
6	0.987	15	48	0.966	6
7	0.970	17	49	0.948	10
8	0.961	19	50	0.949	10
9	0.969	18	51	0.934	12
10	0.980	16	52	0.945	13
11	0.980	17	53	0.988	11
12	1.018	10	54	1.019	11
13	0.999	12	55	1.041	11
14	0.989	13	56	1.049	14
15	0.975	15	57	1.042	15
16	0.974	15	58	1.019	16
17	0.994	10	59	1.015	15
18	1.026	8	60	1.012	12
19	1.038	5	61	0.993	13
20	1.018	13	62	0.976	15
21	1.034	13	63	0.998	12
22	1.099	4	64	0.983	14
23	1.082	9	65	0.998	14
24	1.048	8	66	0.970	19
25	0.986	12	67	0.982	18
26	0.960	10	68	0.980	19
27	0.941	11	69	0.955	24
28	0.947	10	70	0.974	22
29	0.937	11	71	0.941	26
30	0.942	10	72	0.969	22
31	0.963	6	73	0.949	30
32	1.003	-3	74	0.967	22
33	1.002	-3	75	0.956	27
34	0.976	1	76	0.959	28
35	0.988	-1	77	0.969	26
36	1.004	0	78	1.030	13
37-42	1.000	0			

5.4 ITPR Corrections to the User's Guide

The following tables replace Table 5-3 of The Nimbus 5 User's Guide.

Table 5-4
(First presented in volume 1)

ITPR Calibration Constants for the Period 12/12/72 - 2/6/73

$R_s = a_0 + a_1 V$		
R_s = radiance of the scene (mw/m ² ster cm ⁻¹)		
V = digital counts		
Channel	a_0^*	a_1
1	1.0495	-0.001773
2	141.78	-0.1813
3	166.93	-0.2046
4	173.02	-0.2065
5	174.02	-0.1940
6	174.99	-0.1977
7	170.18	-0.1995

*The calibration constant a_0 now includes the radiance of the chopper reference black-body.

Table 5-5
(First presented in volume 2)

ITPR Calibration Constants for the Period 2/7/73 - 3/31/73

$R_s = a_0 + a_1 V$		
R_s = radiance of the scene (mw/m ² ster cm ⁻¹)		
V = digital counts		
Channel	a_0^*	a_1
1	1.061	-0.001782
2	141.775	-0.1801
3	166.840	-0.2037
4	172.974	-0.2054
5	174.034	-0.1931
6	175.040	-0.1963
7	170.288	-0.1988

*The calibration constant a_0 now includes the radiance of the chopper reference black-body.

Table 5-6
(First presented in volume 3)

ITPR Calibration Constants for the Period 4/1/73 - 5/31/73

$R_s = a_0 + a_1 V$		
R_s = radiance of the scene (mw/m ² ster cm ⁻¹)		
V = digital counts		
Channel	a_0^*	a_1
1	1.056	-0.001783
2	141.6	-0.1815
3	166.8	-0.2057
4	173.0	-0.2068
5	174.0	-0.1946
6	174.9	-0.1976
7	170.1	-0.1987

*The calibration constant a_0 now includes the radiance of the chopper reference black-body.

Table 5-7
(First presented in volume 4)

ITPR Calibration Constants for the Period 6/1/73 - 7/31/73

$R_s = a_0 + a_1 V$		
R_s = radiance of the scene (mw/m ² ster cm ⁻¹)		
V = digital counts		
Channel	a_0^*	a_1
1	1.049	-0.001758
2	141.8	-0.1820
3	166.8	-0.2061
4	173.1	-0.2072
5	174.1	-0.1954
6	175.2	-0.1982
7	170.3	-0.1985

*The calibration constant a_0 now includes the radiance of the chopper reference black-body.

The following are changes to the ITPR material in Section 5 of The Nimbus 5 User's Guide: (First presented in Volume 2)

- The table, Nimbus 5 Compacted Data Format, at the bottom of page 125 should read:

<u>Word</u>	<u>Format</u>	<u>Description</u>
1	I	GMT (seconds)
2	Spec 1	Julian Day and Year
3 - 162	Spec 2 (F1, F3)	Calibrated IR Data
163 - 182	F1	Latitude
183 - 202	F1	Longitude
203 - 222	F1	Zenith
223	I	Grid Type (0 = Nadir) (1, 2, or 3 = Scan)
224 - 225	-	Zero Fill

- On page 126 in the paragraph describing Spec 2, the last two lines of that paragraph should read:

"... 4-word pattern will be repeated thru word 162, resulting in 40 sets of IR measurements."
- The next paragraph (on page 126, after description of Spec 2) should read:

"Each data record will contain 5 major frames of data (225 24-bit words for each major frame) with a total of 1125 24-bit words, or 450 60-bit words. Because major frames will contain either 34, 36 or 40 earth views for each channel, there will be zero fill in the IR data words when 34 or 36 views are present, and the corresponding latitudes and longitudes will be fictitious. This applies also to data samples which occur during retrace. Zero fill will be used to produce the constant-length record when the number of major frames in a day is not a multiple of 5."
- In the next paragraph the following changes should be made:

Line 1: "... with a density of 556 6-bit bytes..."
should read: "... with a density of 800 6-bit bytes..."

Line 3: "... per day at 320 major frames... about 640 records"
should read: "... per day at 400 major frames... about 960 records"

Line 4: "... will contain about 5 days..."
should read: "... will contain about 4 days..."

5.5 SCR Corrections to the User's Guide

The following information supplements the SCR information in the User's Guide and has been derived from post-launch information. (First presented in volume 3)

The filters of the A and B channels have minor leaks at short wavelengths. Corrections for these leaks are made using the radiance measured by channel C4 (11.5 μm window channel) in the equation,

$$R_i = R_i(1 + \gamma_i) - a_i \gamma_i C_4,$$

where R_i is the measured channel i Radiance and R_i is the corrected radiance. Table 5-7 gives values of γ and $a\gamma$ for the A channels and channel B4. Corrections are of order 1-2 radiance units ($\text{mw/m}^2 \text{ ster cm}^{-1}$) for the A channels. This is small compared with typical measured radiances of 80 units, but still 5-10 times larger than the rms noise. The correction to B4 is normally about 5 radiance units.

The B difference channels are not affected by leaks since the differencing operation causes the leaks to cancel exactly. The equation

$$R_{ij} = R_i + (R_i - R_j)\beta_{ij},$$

where R_{ij} is the calculated channel B_{ij} radiance and R_i is the measured channel B_i radiance, is used to derive the B difference channel radiances (B12, B23, and B34) from the measured B channel radiances (B1, B2, B3, and B4). Table 5-8 gives the coefficients β_{ij} .

Table 5-8

Correction Coefficients γ and $a\gamma$ for the SCR Temperature Sounding Channels

Channel	γ	$a\gamma$
A1	.0305	.015
A2	.0235	.0105
A3	.0146	.0057
A4	.0595	.025
B4	.153	.0165

Table 5-9

SCR B Difference Channel Coefficients β

Channel	β
B12	9.50
B23	10.05
B34	4.83

Figure 5-1 gives the experimenter's current best estimates of the weighting functions of the A channels and B4, when corrected as above, and of the B difference channels. These channels measure emission from carbon dioxide in the ν_2 band near $15 \mu\text{m}$. The weighting functions were derived for a climatological mean temperature profile and, to a good approximation, are independent of temperature profile for the range of temperature which occurs in the atmosphere. These weighting functions are a compromise between theoretical computations, using spectral line parameters together with measured filter transmission profiles, and pre-launch test results for the flight instrument. This method is similar to that used for the Nimbus 4 SCR and was described in more detail by Barnett et al (1972).

5.6 NEMS Corrections to the User's Guide

There are no NEMS corrections to the User's Guide.

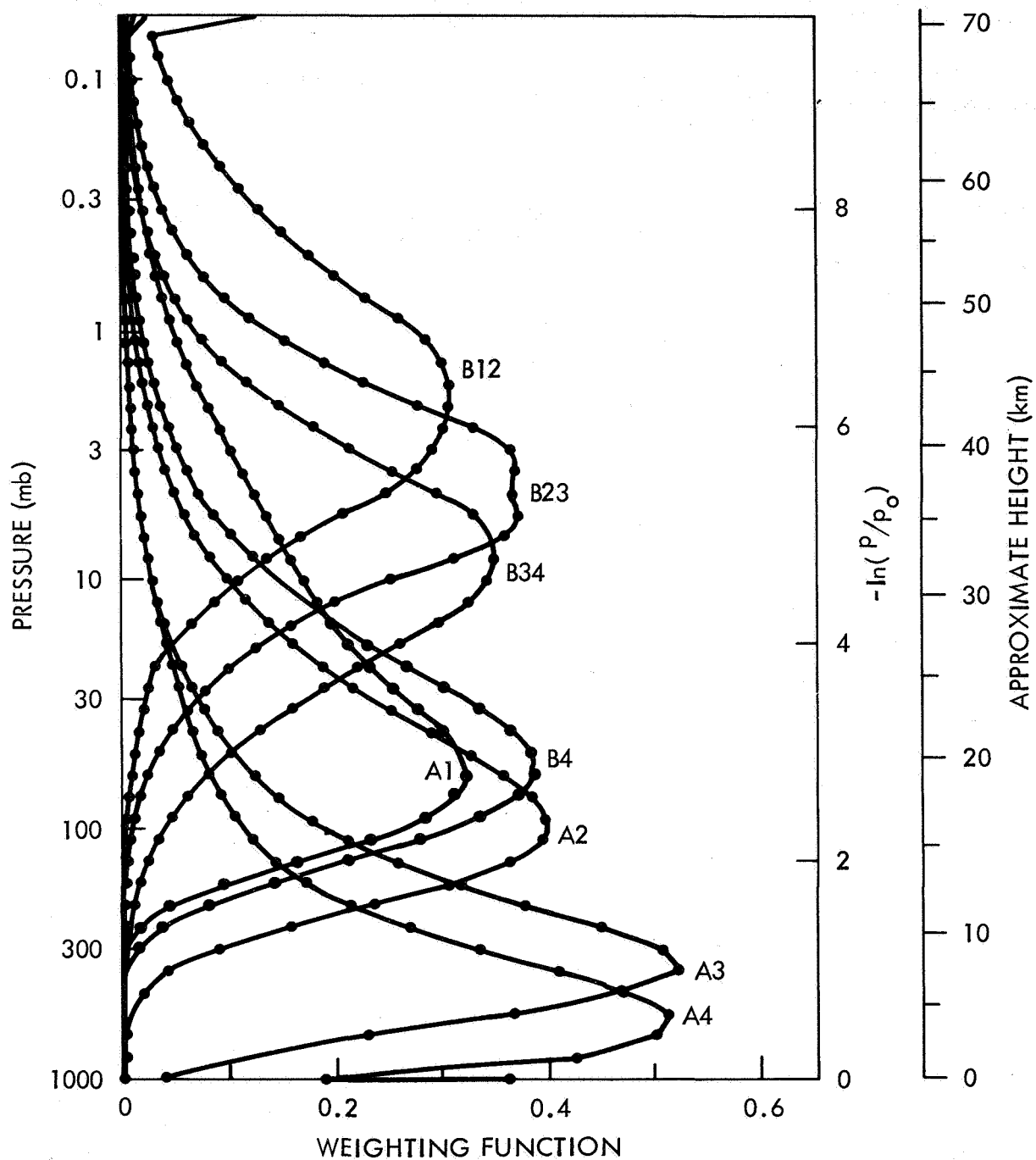
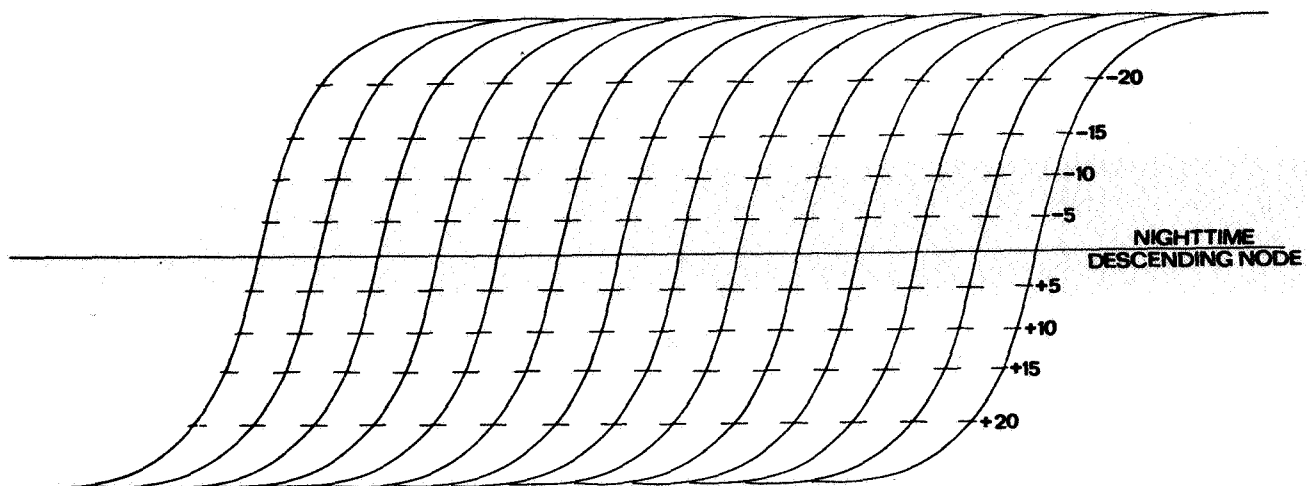
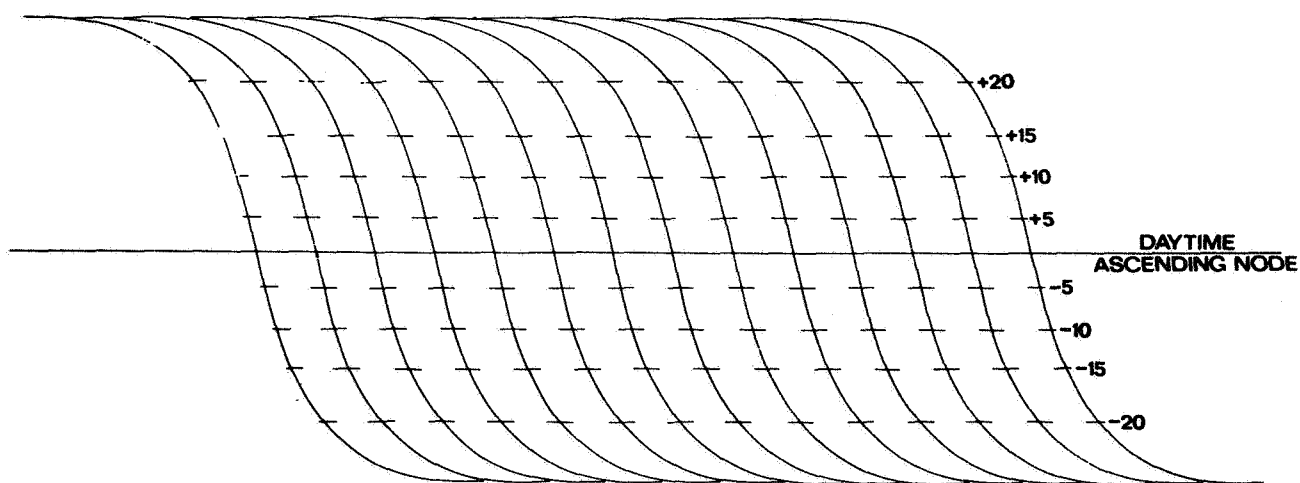


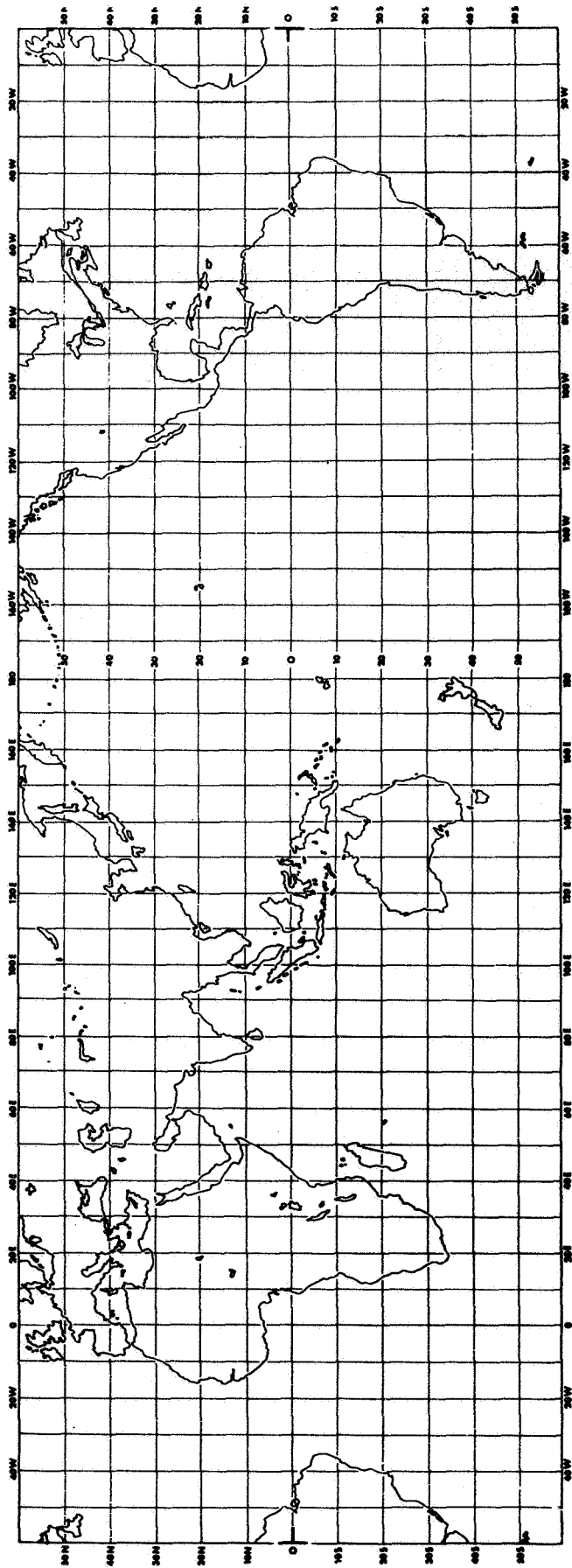
Figure 5-1 Weighting Functions of the Temperature Sounding Channels of the Nimbus 5 SCR. The height scale is approximate. The abscissa is a weighting function on an arbitrary scale.



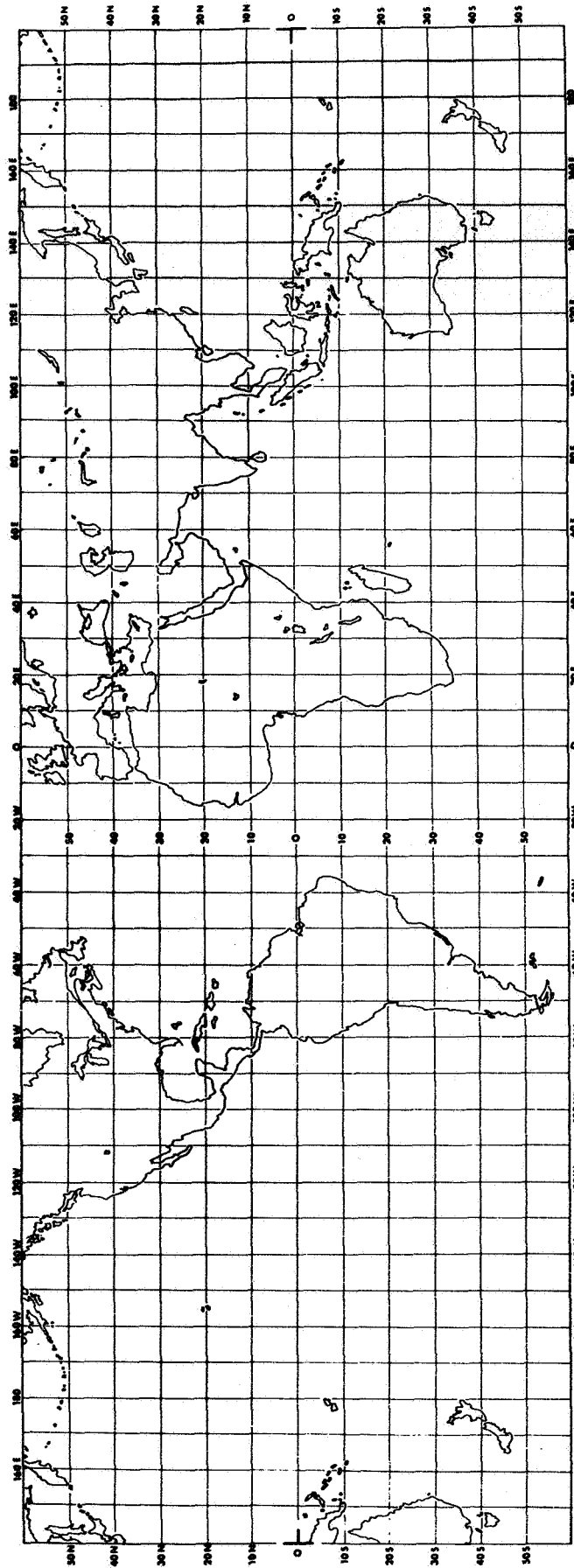
NIMBUS SUBSATELLITE TRACKS OVERLAY



NIMBUS SUBSATELLITE TRACKS OVERLAY



Location Guide
Average Scale for Nimbus
THIR Nighttime Montages



Location Guide
Average Scale for Nimbus
THIR Daytime Montages